

State of Colorado
Oil and Gas Conservation Commission
DEPARTMENT OF NATURAL RESOURCES

FOR OGCC USE ONLY

RECEIVED
NOV 22 00
COGCC

WELL ABANDONMENT REPORT

This form is to be submitted as an intent whenever a plugging is planned on a borehole. The approved intent shall be valid for one year after the approval date; after that period a new intent will be required. After the plugging is complete, this form shall again be submitted as a subsequent report of the work as actually completed.

OGCC Operator Number: 27580
Name of Operator: Energy Operating Company, Inc.
Address: 3333 S. Wadsworth Blvd., #D-218
City: Lakewood State: CO Zip: 80227
API Number: 05- 023-05004
Well Name: Williamson Number: 1
Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW, Section 23-T1N-R72W
County: Costilla Federal, Indian or State lease number: N/A
Field Name: Wildcat Field Number: -

Contact Name & Phone

Dan Hall

No: 303-969-9610

Fax: 303-969-9644

ET OE PR ES

24 hour notice required, contact

@

Complete the
Attachment Checklist

	Oper	OGCC
Wellbore Diagram	X	
Cement Job Summary	X	
Wireline Job Summary		

☐ Notice of Intent to Abandon☒

Subsequent Report of Abandonment

Background for Intent Only

Reason for abandonment: ☒ Dry ☐ Production Sub-economic ☐ Mechanical Problems ☐ Other
Casing to be pulled: ☒ No ☐ Yes Top of casing cement:
Fish in hole: ☒ No ☐ Yes If yes, explain details below:
Wellbore has uncemented casing leaks: ☒ No ☐ Yes If yes, explain details below:
Details:

Current and Previously Abandoned Zones

Formation	Perforations	Date	Method of Isolation (None, Squeezed, BP, Cement, etc.)	Plug Depth

Casing History

Casing String	Size	Cement Top	Stage Cement Top
conductor @ 60'	16" (0.25" WT)	surface	n/a
surface casing @ 908'	9-5/8", 35#, J-55, STC	surface	n/a

Plugging Procedure for Intent and Subsequent Report

1. CIBP #1 Depth _____ CIBP #2 Depth _____ CIBP #3 Depth _____ NOTE: Two (2) sacks cement required on all CIBPs
2. Set 75 sks cmt from 6477 ft. to 6577 ft. in ☐ Casing ☒ Open Hole ☐ Annulus
3. Set 75 sks cmt from 3172 ft. to 3272 ft. in ☐ Casing ☒ Open Hole ☐ Annulus
4. Set _____ sks cmt from _____ ft. to _____ ft. in ☐ Casing ☐ Open Hole ☐ Annulus
5. Set _____ sks cmt from _____ ft. to _____ ft. in ☐ Casing ☐ Open Hole ☐ Annulus
6. Set _____ sks cmt from _____ ft. to _____ ft. in ☐ Casing ☐ Open Hole ☐ Annulus
7. Perforate and squeeze @ _____ ft. with _____ SKS Leave at least 100 ft. in casing
8. Perforate and squeeze @ _____ ft. with _____ SKS Leave at least 100 ft. in casing
9. Perforate and squeeze @ _____ ft. with _____ SKS Leave at least 100 ft. in casing
10. Set 75 SKS 1/2 in 1/2 out surface casing from 835 ft. to 935 ft.
11. Set 10 SKS @ surface
Cut 4 feet below ground level, weld on plate
Set _____ SKS in rate hole
- Dry-Hole Marker ☐ No ☒ Yes
Set _____ SKS in mouse hole

Additional Plugging Information for Subsequent Report Only

Casing recovered: _____ ft. of _____ in. casing

Plugging date: 6-25 & 6-26-99

*Wireline contractor: _____

*Cementing contractor: Cementers Inc.

Type of cement and additives used: Class 'B' (neat)

*Attach job summaries.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name Dan Hall

Signed

Title: President

Date: 11-15-00

OGCC Approved: DK Dillon

Title: SR. PETROLEUM ENGINEER Date: DEC 26 2000
O & G Cons. Comm.

CONDITIONS OF APPROVAL, IF ANY:



CEMENTERS, INC.
P. O. BOX 302
FARMINGTON, NEW MEXICO 87499
(505) 632-3683

JOB TICKET 9552

Customer: <u>Energy Operators</u>			Well No.: <u>Williamson #1</u>		Lease:
Address:			County: <u>Costilla</u>		State: <u>CO</u>
City	State	Zip	Field:		
Date of Job: <u>6/25/99</u>			Size of Hole: <u>8 3/4"</u>		Depth: <u>6100</u> Ft.
Type of Job: <u>P/A</u>			Depth: <u>6100</u> Ft.		
New Well <input checked="" type="checkbox"/> Old Well <input type="checkbox"/> Other <input type="checkbox"/>			Size & Wt. of Casing:		Depth: Ft.
Pump Truck Used: <u>113</u>			Top Plugs:		Type:
Bulk Truck Used: <u>111</u>			Bottom Plugs:		Type:
Mileage: <u>230</u>			Ton Mileage: <u>230</u>		
Cement and Additive Data:			Bulk <input checked="" type="checkbox"/> Sacks <input type="checkbox"/>		
SACKS	BRAND	TYPE	OTHER		
75	class B				
75	class B				
75	class B				

Slurry Weight: 15.6 lbs./gal. Slurry Volume: _____ lbs./cu ft.
225 Sacks Cement Treated with 6 % of 6

Price Ref. No.	Description	Rate
PR 7	SERVICE CHG	870 00
PR 8	DUMP TRK MILEAGE CHG 230 mi @ 235 PER MI	540 50
PR 12	PICKUP TRK MILEAGE CHG 230 mi @ 1" PER MI	230 00
PR 39	225 SA CEMENT @ 10.50 PER SA	2362 50
	operator's expense 1 day 100" PER DAY PER HAND	300 00
		4326 00
	3% tax on mat.	76 57
		4396 57
	TOTAL	

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced)

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for in this order shall be subject to the terms and conditions appearing on the front and reverse sides of order without the consent of an authorized representative of CEMENTERS INC.

SIGNED: Tom Fraley
AGENT OF OWNER OR CONTRACTOR

THE ABOVE MATERIAL AND SERVICE
ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR OR AGENT)

Energy Operating Company, Inc.
Williamson #1
SESW, Section 23-T1N-R72W
Costilla County, Colorado

9-5/8", 36#, J-55, STC surface casing set at 908' and cemented to surface with 225 sx Class B + admixes (12.5 ppg and 2.06 cf/sx) followed by 150 sx Class B + admixes (15.1 ppg and 1.18 cf/sx).

10 sx Class B cement at surface. Wellhead cut off, plate welded on, and dryhole marker installed.



75 sx Class B cement plug from 835-935'.

75 sx Class B cement plug from 3172-3272'.

75 sx Class B cement plug from 6477-6577'.

- NOTES:
- 1) Not to Scale
 - 2) Elevations: 8362' KB, 8350' GL
 - 3) Date: 11-15-00
 - 4) API #: 05-023-05004

TD @ 6657'



CEMENTERS, INC.

P. O. BOX 302
FARMINGTON, NEW MEXICO 87499
(505) 632-3683

JOB TICKET 9540



Customer: <u>Energy Operators</u>			Well No.: <u>Williamson #1</u>		Lease:
Address:			County:		State: <u>CA</u>
City	State	Zip	Field:		
Date of Job: <u>6-4-99</u>			Size of Hole: <u>12 1/4</u>		Depth: <u>912</u> Ft.
Type of Job: <u>9 5/8 surj</u>			Depth: <u>912</u> Ft.	Size & Wt. of Casing: <u>9 5/8</u> Depth: <u>909</u> Ft.	
New Well <input checked="" type="checkbox"/> Old Well <input type="checkbox"/> Other <input type="checkbox"/>			Size & Wt. of Pipe: Depth: Ft.		
Pump Truck Used: <u>101</u> Mileage: <u>200</u>			Top Plugs: <u>9 5/8 Rubber</u> Type:		
Bulk Truck Used: <u>116</u> Ton Mileage: <u>200</u>			Bottom Plugs: Type:		

Cement and Additive Data:				Bulk <input checked="" type="checkbox"/>	Sacks <input type="checkbox"/>
SACKS	BRAND	TYPE	OTHER		
225	Class B		1/4 # cellophane, 2% metasilicate, 40% KCl		
150	Class B		1/4 # cellophane, 2% CaCl ₂		

Slurry Weight: 12.5 - 15.6 lbs./gal.

Slurry Volume: lbs./cu. ft.

225 - 150 Sacks Cement Treated with 2 % of C-lite, CaCl₂

Price Ref. No.	Description	Rate
PR 2	SERVICE chg	1038 28
PR 10	pump trk mileage chg 200 mi. @ 2 ³⁵ per mi	470 00
PR 12	pickup trk mileage chg 200 mi. @ 1 ⁰⁰ per mi	200 00
PR 15	Handling chg 384 lbs @ 1 ⁰⁰ per lb	384 00
PR 16	ton mileage chg 31069 # @ 0.95 per ton	3426 55
PR 31	375 sx cement @ 8 ⁰⁰ per sx	3037 50
PR 35	94 lb cellophane @ 1 ⁰⁰ per lb	103 40
PR 36	425 lb metasilicate @ 1 ²⁰ per lb	510 00
PR 33	3 sx CaCl ₂ @ 35 ⁰⁰ per sx	105 00
SU 43	9 5/8 cement nose shoe	244 00
	9 5/8 float collar	425 00
SU 44	1 @ 9 5/8 cent @ 1 ⁴⁰ per cent	384 00
SU 46	9 5/8 rubber plug	112 00
	9 5/8 stop ring	31 00
SU 90	Thread lock	27 50
PR 34	850 # KCl @ 21 per lb.	178 50
		10697 33
	LESS 10%	1069 73
		9627 50
	3% tax on materials	139 28
		9766 88
	Total	

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced)

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for in this order shall be subject to the terms and conditions appearing on the front and reverse sides of order without the consent of an authorized representative of CEMENTERS INC.

SIGNED: Tom Fraley
AGENT OF OWNER OR CONTRACTOR

THE ABOVE MATERIAL AND SERVICE
ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR OR AGENT)

White Copy - Operator

Canary Copy - Office

Pink Copy - Invoice

Gold Copy - File



CEMENTERS, INC.

P. O. BOX 302

FARMINGTON, NEW MEXICO 87498

CEMENT JOB DETAIL SHEET

[illegible]



7424 W 6WN Road
Casper, Wyoming 82609
(307) 472-0001 Fax (307) 472-0161

INTEQ

Survey Certification Sheet

Energy Operating Company, Inc.

Company

106568

Job Number

June 24, 1999

Date

Sec.23-T1N-R72W

Lease

Williamson #1

Well Name

Costillo County, Colorado

County and State

Surveyed from a depth of 912 feet to 6,615 feet MD

Type of Survey MWD

Directional Supervisor/Surveyor Bob Richardson

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Doug Hudson
District Engineer

This document has been subscribed and affirmed, or sworn to before me in the county of Natrona, state of Wyoming, this 27th day of July, 19 99.

My commission expires 4-10-02

Certification Number: 1331

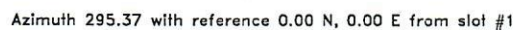
Certification Date July 27, 1999





Location : COLORADO

--- Baker Hughes INTEQ ---



ENERGY OPERATING COMPANY, INC.
SEC.23-T1N-R72W

WILLIAMSON #1
slot #1
COSTILLO COUNTY
COLORADO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : WILLIAMSON #1
Our ref : svy4905
License :

Date printed : 28-Jun-99
Date created : 28-Jun-99
Last revised : 28-Jun-99

Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - UTM, Spheroid: Hayford

Reference North is True North

ENERGY OPERATING COMPANY, INC.
SEC.23-T1N-R72W,WILLIAMSON #1
COSTILLO COUNTY,COLORADO

SURVEY LISTING Page 1
Your ref : WILLIAMSON #1
Last revised : 28-Jun-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	
0.00	0.00	0.00	0.00	0.00	N	0.00	E	0.00
912.00	0.00	0.00	912.00	0.00	N	0.00	E	0.00
1008.00	0.50	281.20	1008.00	0.08	N	0.41	W	0.41
1484.00	2.10	254.70	1483.86	1.82	S	10.86	W	9.04
1960.00	1.00	273.30	1959.68	3.88	S	23.42	W	19.50
2436.00	2.50	297.50	2435.45	1.15	N	36.78	W	33.72
2912.00	3.20	324.00	2910.88	16.70	N	53.79	W	55.76
3388.00	1.90	280.90	3386.44	28.94	N	69.35	W	75.07
3864.00	3.40	267.30	3861.92	29.77	N	91.20	W	95.16
4340.00	4.20	283.10	4336.89	33.05	N	122.28	W	124.65
4646.00	7.60	293.40	4641.23	43.63	N	151.78	W	155.83
4740.00	6.00	297.20	4734.56	48.35	N	161.85	W	166.96
4834.00	4.00	293.00	4828.20	51.87	N	169.24	W	175.14
4928.00	3.70	294.80	4921.99	54.43	N	175.01	W	181.45
5024.00	4.20	301.90	5017.76	57.58	N	180.81	W	188.04
5116.00	3.50	304.10	5109.55	60.94	N	185.99	W	194.17
5209.00	3.70	310.50	5202.37	64.48	N	190.62	W	199.87
5302.00	3.60	317.00	5295.18	68.56	N	194.90	W	205.48
5366.00	3.80	321.10	5359.05	71.68	N	197.60	W	209.26
5429.00	4.90	324.23	5421.87	75.49	N	200.48	W	213.49
5492.00	5.00	319.10	5484.63	79.75	N	203.85	W	218.36
5554.00	5.00	317.30	5546.40	83.78	N	207.46	W	223.34
5618.00	4.60	313.30	5610.17	87.59	N	211.21	W	228.37
5681.00	4.60	305.00	5672.97	90.77	N	215.12	W	233.27
5742.00	3.80	290.90	5733.81	92.89	N	219.01	W	237.69

TIE IN

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 281.90 on azimuth 295.37 degrees from wellhead.
Vertical section is from wellhead on azimuth 295.37 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

ENERGY OPERATING COMPANY, INC.
SEC.23-T1N-R72W,WILLIAMSON #1
COSTILLO COUNTY,COLORADO

SURVEY LISTING Page 2
Your ref : WILLIAMSON #1
Last revised : 28-Jun-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
5805.00	3.40	279.90	5796.68	93.96 N 222.81 W	1.26	241.58
5868.00	4.10	283.50	5859.55	94.81 N 226.84 W	1.17	245.58
5931.00	3.50	280.70	5922.41	95.69 N 230.92 W	1.00	249.64
5994.00	3.70	284.90	5985.28	96.57 N 234.77 W	0.53	253.50
6057.00	3.00	301.90	6048.18	97.96 N 238.13 W	1.92	257.14
6119.00	2.90	301.50	6110.10	99.64 N 240.85 W	0.16	260.31
6149.00	3.30	301.70	6140.05	100.49 N 242.23 W	1.33	261.92
6181.00	3.60	300.20	6171.99	101.48 N 243.88 W	0.98	263.84
6241.00	3.90	303.30	6231.87	103.55 N 247.22 W	0.60	267.74
6303.00	2.90	310.40	6293.76	105.72 N 250.17 W	1.75	271.34
6365.00	2.60	316.80	6355.68	107.76 N 252.33 W	0.69	274.17
6428.00	2.30	323.10	6418.63	109.81 N 254.07 W	0.64	276.62
6491.00	3.40	345.90	6481.55	112.64 N 255.28 W	2.47	278.92
6554.00	4.00	4.80	6544.42	116.64 N 255.55 W	2.14	280.88
6615.00	4.00	18.00	6605.27	120.78 N 254.72 W	1.51	281.90

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 281.90 on azimuth 295.37 degrees from wellhead.
Vertical section is from wellhead on azimuth 295.37 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

ENERGY OPERATING COMPANY, INC.
SEC.23-T1N-R72W,WILLIAMSON #1
COSTILLO COUNTY,COLORADO

SURVEY LISTING Page 3
Your ref : WILLIAMSON #1
Last revised : 28-Jun-99

MD	TVD	Rectangular Coords.	Comments in wellpath		
			=====		
			Comment		

912.00	912.00	0.00 N 0.00 E	TIE IN		

NO PROPOSAL



WELLSITE GEOLOGY REPORT

Energy Operating as operator for Ventero Exploration
Williamson #1 Well
SE SW Sec 23 T1N R72W
Costilla County, Colorado

Prepared by:
Foxpark Oil & Gas, Inc.
Geologist: John A. Morel
Wyoming Prof. Geol #833
AAPG Cert. Petr. Geol. #4725
2792 S. Fillmore St., Denver, CO 80210
(303) 757-8230

**Energy Operating as operator for Ventero Exploration
Williamson #1 Well
SE SW Sec 23 T1N R72W, Costilla County, Colorado**

RECOMMENDATION

In consideration of the available information, it is recommended that the Williamson #1 well be plugged and abandoned. Neither the Dakota sand nor any of the Cretaceous formations were found. The sediments drilled were unconsolidated valley fill (Santa Fe formation), volcanics (probably Miocene and Oligocene Conejos formation equivalents), and coarse crystalline Precambrian basement.

WELL DATA

Operator: Energy Operating as operator for Ventero Exploration
3333 S. Wadsworth Blvd., #218
Lakewood, Colorado 80227

Name: Williamson #1
Location: 656' FSL 1990' FWL
SW SE Sec 23 T1N R72W
Wildcat -- Costilla County, Colorado

Elevation: 5350' GL 5362' KB

Spud Date: June 3, 1999 TD Date: June 23, 1999

Surface Pipe: 9 5/8" set at 909'

Total Depth: Driller 6657', in the Precambrian basement

Cores or Tests: None

Logging: Halliburton Logging Services, Farmington, NM, Chuck Perry, Engr
SP, Dual Induction, Shallow Guard -- 6657' to surface casing
Gamma, Sonic -- 6657' to surface casing

Plugged and abandoned, June 25, 1999

Company Representative: John Morel, geologist for Ventero Exploration

Contractor: Cyclone Rig #4, Mike Smith, tool pusher

Engineering Supervision: Tom Fraley, field engineer for Energy Operating

Mudlogging: Pason Systems, Grand Junction, CO, Art Curtis and Greg Smith

**Energy Operating as operator for Ventero Exploration
Williamson #1 Well
SE SW Sec 23 T1N R72W, Costilla County, Colorado**

FORMATION TOPS

<u>Formation</u>	<u>Sample Top</u>	<u>Log Top</u>	8362' KB	<u>Datum</u>
Alluvial Valley Fill	surface	0		+8362
Basalt	875	880		+7487
Upper Santa Fe Alluvial Fans	1400	1400		+6962
Lower Santa Fe Volcanics	2400	2400		+5962
Oligocene Tuffs	3500	3500		+4862
Coarse crystalline mafics	6320	6233		+2129
Metamorphic Granite	6550	6524		+1838
Fresh Granite	6600	6600		+1762
TD	6657 driller	6642 logger		+1720

FORMATION DESCRIPTIONS

Alluvial Valley Fill: Unconsolidated soil, sandstone, and igneous/metamorphic cobbles. Sandstone, clear to frosted, fine to coarse grain, poorly sorted, angular, all free grains. Cobbles, well rounded, highly weathered, granites and schists.

Basalt: Basalt and Andesite, black and red/grey, microcrystalline, hard, angular cuttings to shards.

Upper Santa Fe: Sandstone, clear to frosted, medium to coarse grained, poorly sorted, angular, unconsolidated, with some pink/orange grains (feldspars?). SS at 2300' clear to frosted, upper medium grained, well sorted, well rounded, unconsolidated.

Lower Santa Fe: Andesite with Basalts, Tuffs, and Sands, red/orange/grey, microcrystalline, hard, angular cuttings. Basalts same as upper Santa Fe. Tuffs, buff to cream, soft to friable. SS as above.

Oligocene Volcanics: Andesitic tuffs, reddish brown, soft to friable, blocky to sub-platey, microcrystalline, similar in appearance to brown shale. Some rhyolite, white, hard, microcrystalline ground mass with small visible quartz crystals. Similar in appearance to a very fine grained sandstone.

Coarse crystalline mafic rock: Dark grey to black crystal clusters mainly amphibole, pyroxenes, and quartz;; hard, angular with many well developed crystal faces.

Metamorphic Granite: pink and light orange; well developed mica, feldspar, and quartz crystals; firm to friable, chalky texture with some clays.

Fresh Granite: bright orange chips containing K-feldspar and quartz; sharp, angular fragments with few pieces of mica and dark minerals.

**Energy Operating as operator for Ventero Exploration
Williamson #1 Well
SE SW Sec 23 T1N R72W, Costilla County, Colorado**

HYDROCARBON SHOWS

No background gas. No stain, cut, or fluorescence.
One unit of methane background was present from 3500' to 3600'.

DISCUSSION

The original prognosis for this well placed the Mancos shale below the unconformity at 3500'. This was based on 2-D and 3-D seismic data that showed an anticlinal feature at this location and an unconformity at 3500'. The regional uplift at the end of the Laramide orogeny (55 mybp) eroded varying thicknesses of pre-Tertiary sediments in the San Luis valley. The angular unconformity seen on seismic was interpreted to be the unconformity between the Tertiary and pre-Tertiary sediments. Neither the unconformity nor the pre-Tertiary sediments are seen in outcrop or nearby wells.

Unconsolidated valley fill was present from the surface to 880 feet. Then interbedded basalts and sands were found from 880' to 1400'. Unconsolidated sands were again present from 1400' to 2400'. This entire package from surface to 2400' is interpreted to be the Santa Fe formation. The basalts are interpreted to correlate to the 18 mybp basalt flows documented in USGS publication MF-2312-B describing the Ojito Peak Quadrangle 20 miles north of this well.

The "Top 500" seismic marker correlates with the top of the basalt package when an average velocity of 7000 ft/sec is used. The "Base 500" seismic marker correlates to the base of the basalt package when an average velocity of 8000 ft/sec is used (12,000 ft/sec basalt interval velocity). Both average velocities are close to the stacking velocities derived during processing.

A sequence of interbedded andesites and unconsolidated sands is present between 2400' and 3500'. The presence of andesite could be the transition into the Conejos formation, about 28 mybp. The predominantly volcanic package is interpreted to correlate with the Oligocene volcanics below the Santa Fe formation as described in USGS publication MF-2312-F.

The "Top 800" seismic marker correlates with the transition from predominantly unconsolidated sands to interbedded andesites and sands at 2400'. An interval velocity of 7000 ft/sec in the sand produces a lower average velocity to 7840 ft/sec. The "Base 800" seismic marker correlates with a transition within the volcanic package from primarily andesites to primarily andesitic tuffs at 3500 feet. An interval velocity of 13,000 ft/sec in the andesites produces an average velocity of 9500 ft/sec. Again, these velocities are close to the stacking velocities derived during processing.

The "Base 800" marker was particularly important because it represents an angular unconformity. The original interpretation was that it is the unconformity between Tertiary and pre-Tertiary strata. Drilling has demonstrated that it is an unconformity between andesites and andesitic tuffs. The volcanic sequence continues to 6320'.

Energy Operating as operator for Ventero Exploration
Williamson #1 Well
SE SW Sec 23 T1N R72W, Costilla County, Colorado

Coarse crystalline rocks began at 6320 and continue to total depth. They began with a hard, dense, mafic rock containing amphiboles, pyroxenes, and quartz. It is described in the mudlog as amphibolite. The next lithology is metamorphic granite containing large muscovite flakes and altered feldspar crystals. The last lithology penetrated was fresh granite. The feldspars were bright orange with quartz crystals, mica, and specs of dark minerals. These three lithologies represent the Precambrian basement complex.

Drilling was fast and easy throughout the volcanic sequence, but the bit wore out quickly in the basement complex.

The unconformity at 6320 jumps directly from the Tertiary into the Precambrian. All of the Paleozoic and Mesozoic sequences are missing. The Dakota sandstone and the Mancos shale packages were the primary targets. Neither they nor any of the Cretaceous section were present.

On the basis of no shows and no Cretaceous sediments this well is recommended to be plugged and abandoned.

DEVIATION RECORD

Depth	Deviation	Depth	Deviation
384	$\frac{3}{4}$	3191	1
612	$\frac{1}{2}$	3384	$1 \frac{1}{2}$
884	$\frac{3}{4}$	3549	$1 \frac{1}{2}$
1387	$1 \frac{1}{2}$	3754	$4 \frac{1}{4}$
1887	$\frac{3}{4}$	3840	4
2451	2	4131	$2 \frac{3}{4}$
2641	$3 \frac{3}{4}$	4221	4
2800	$5 \frac{1}{2}$	4344	$4 \frac{3}{4}$
2859	4	4469	6
2919	$3 \frac{3}{4}$	4532	$5 \frac{3}{4}$
3009	$3 \frac{1}{4}$	4596	6
		4658	7

Switching to mud motor and MWD equipment.
MWD surveys are attached.

BIT RECORD

No.	Size	Make	Type	Depth Out	Footage
1	$12 \frac{1}{4}$	HTC	ATJ-1S	909	909
2	$8 \frac{3}{4}$	HTC	H-09	2660	1751
3	$8 \frac{3}{4}$	HTC	GT-18	4668	2008
4	$8 \frac{3}{4}$	HTC	GT-09	6210	1542
5	$8 \frac{3}{4}$	HTC	H-09	6657	447

**Energy Operating as operator for Ventero Exploration
Williamson #1 Well
SE SW Sec 23 T1N R72W, Costilla County, Colorado**

DAILY OPERATIONS

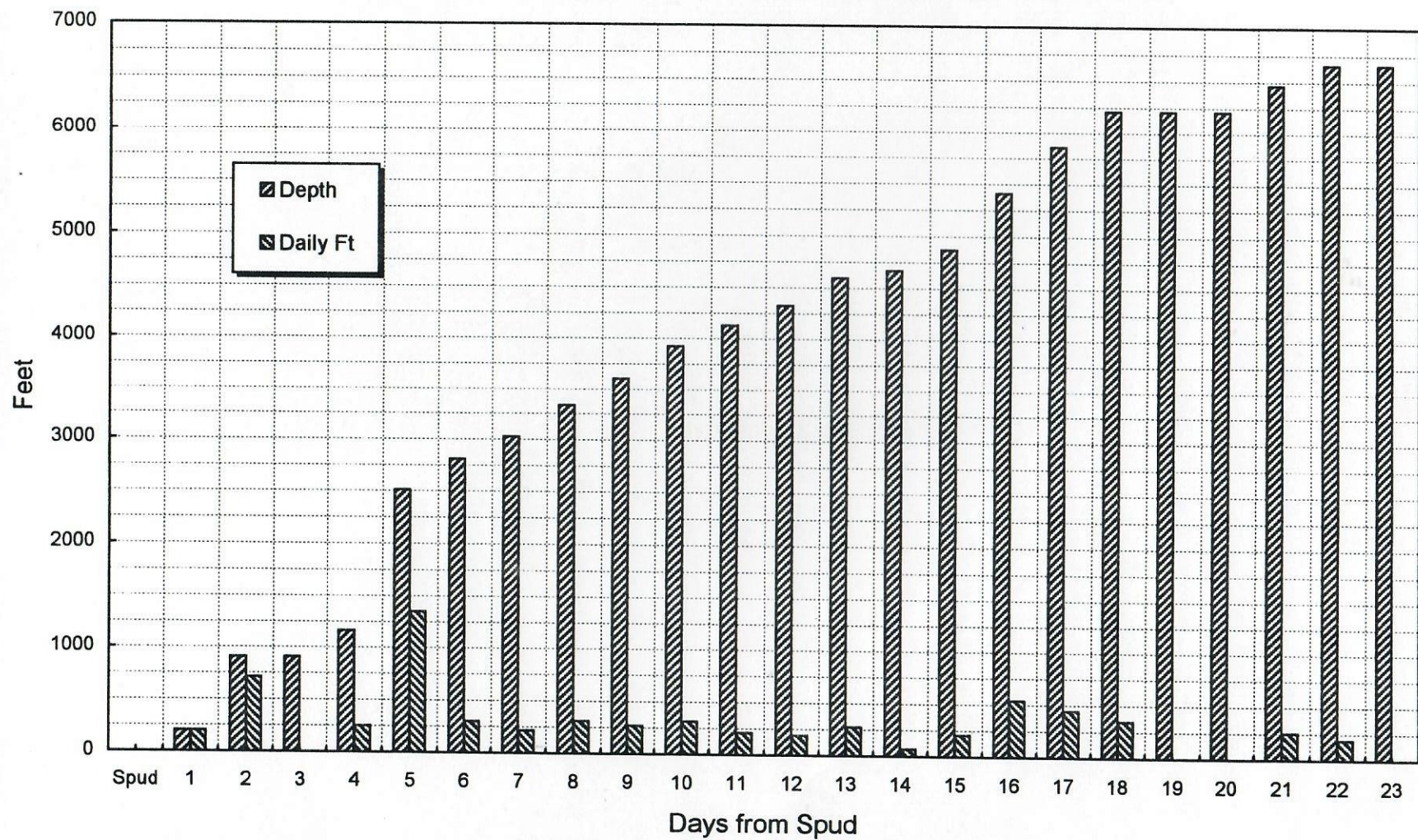
Day	Date	Depth at 8AM	Footage in 24 hrs	Operation	Bit #	WOB	RPM
Spud	6/3 12:00AM			drilling	1A		
1	6/3	198	198	drilling	1A		
2	6/4	909	711	running casing			
3	6/5	909	0	WOBOP			
4	6/6	1160	250	drilling	1	35k	80
5	6/7	2510	1350	drilling	1	20k	75
6	6/8	2810	300	drilling	2	20k	96
7	6/9	3025	215	drilling	2	10k	100
8	6/10	3335	310	drilling	2	25k	100
9	6/11	3605	270	drilling	3	25k	100
10	6/12	3922	317	drilling	3	15k	76
11	6/13	4131	209	drilling	3	20k	72
12	6/14	4322	181	drilling	3	10/15k	72
13	6/15	4596	274	drilling	3	8/10k	72
14	6/16	4668	72	pick up MWD	4		
15	6/17	4872	204	drilling	4	25k	55+100
16	6/18	5412	540	drilling	4	25k	55+100
17	6/19	5860	448	drilling	4	30k	60+100
18	6/20	6210	350	tripping for new bit	5		
19	6/21	6210	0	picking up reamer	5		
20	6/22	6210	0	tripping in hole	5		
21	6/23	6466	256	drilling	5	30k	50+100
22	6/24	6657	191	prep to log			
23	6/25	6657	0	prep to P&A			

**Energy Operating as operator for Ventero Exploration
Williamson #1 Well
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MUD RECORD

Day	Wt	Vis	WL	FC	pH	CL	LCM
1	8.7	49					
2	9.0	74 for casing					
3	nc						
4	8.4	28	nc	nc	10.0	300	
5	8.9	37	12.4	2/32	9.0	200	
6	8.9	36	10.8	2/32	9.0	600	
7	8.9	34	10.0	1/32	9.0	300	
8	9.0	34	10.0	1/32	9.0	200	
9	9.0	34	10.0	2/32	9.0	300	
10	8.9	35	8.4	2/32	9.0	200	
11	9.0	33	9.2	2/32	9.0	200	
12	8.9	32	10.8	2/32	10.0	200	
13	8.9	31	10.4	2/32	9.0	200	
14	8.9	31	10.4	2/32	9.0	200	
15	9.0	37	9.4	2/32	9.0	200	
16	8.8	37	9.4	2/32	9.0	200	
17	8.8	33	9.4	2/32	9.5	200	
18	8.8	33	9.4	2/32	9.0	200	
19	8.9	34	9.6	2/32	9.0	200	
20	8.9	37	8.8	2/32	9.0	200	
21	9.0	37	8.6	2/32	8.5	200	
22	9.0	52	8.6	2/32	8.5	200	
23	9.0	52	8.6	2/32	8.5	200	

Well Depth and Daily Penetration
Williamson #1, T1N, R72W, Costilla County, Colorado





Company: Energy Operating
 Field: Wildcat
 Cty/Blk/Par: Costilla
 Well Name: Williamson # 1
 Rig: Cyclone Rig #4

Job Number: 106568
 Magnetic Decl.: 10.33
 Grid Corr.:
 Total Survey Corr.: 10.33
 Target Info:

Calculation Method Minimum Curvature
 Proposed Azimuth 0
 Depth Reference RKB
 Tie Into: Surface Casing @ 912

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates		Closure		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
								N/S (ft)	E/W (ft)	Dist (ft)	Ang (°)			
1	MWD	1008	0.50	281.20	96	1008.00	0.08	0.08 N	0.41 W	0.42	281.20	0.52	0.5	292.9
2	MWD	1484	2.10	254.70	476	1483.86	-1.82	1.82 S	10.86 W	11.01	260.50	0.35	0.3	-5.6
3	MWD	1960	1.00	273.30	476	1959.68	-3.88	3.88 S	23.42 W	23.74	260.60	0.25	-0.2	3.9
4	MWD	2436	2.50	297.50	476	2435.45	1.15	1.15 N	36.78 W	36.79	271.80	0.34	0.3	5.1
5	MWD	2912	3.20	324.00	476	2910.88	16.70	16.70 N	53.79 W	56.33	287.24	0.31	0.1	5.6
6	MWD	3388	1.90	280.90	476	3386.44	28.94	28.94 N	69.35 W	75.15	292.65	0.47	-0.3	-9.1
7	MWD	3864	3.40	267.30	476	3861.92	29.77	29.77 N	91.20 W	95.94	288.08	0.34	0.3	-2.9
8	MWD	4340	4.20	283.10	476	4336.89	33.05	33.05 N	122.28 W	126.67	285.13	0.28	0.2	3.3
9	MWD	4646	7.60	293.40	306	4641.23	43.63	43.63 N	151.78 W	157.92	286.04	1.16	1.1	3.4
10	MWD	4740	6.00	297.20	94	4734.56	48.35	48.35 N	161.85 W	168.92	286.63	1.77	-1.7	4.0
11	MWD	4834	4.00	293.00	94	4828.20	51.87	51.87 N	169.24 W	177.01	287.04	2.16	-2.1	-4.5
12	MWD	4928	3.70	294.80	94	4921.99	54.43	54.43 N	175.01 W	183.28	287.28	0.34	-0.3	1.9
13	MWD	5024	4.20	301.90	96	5017.76	57.58	57.58 N	180.81 W	189.75	287.67	0.73	0.5	7.4
14	MWD	5116	3.50	304.10	92	5109.55	60.94	60.94 N	185.99 W	195.72	288.14	0.78	-0.8	2.4
15	MWD	5209	3.70	310.50	93	5202.37	64.48	64.48 N	190.62 W	201.23	288.69	0.48	0.2	6.9
16	MWD	5302	3.60	317.00	93	5295.18	68.56	68.56 N	194.90 W	206.61	289.38	0.46	-0.1	7.0
17	MWD	5366	3.80	321.10	64	5359.05	71.68	71.68 N	197.60 W	210.20	289.94	0.52	0.3	6.4
18	MWD	5429	4.90	324.23	63	5421.87	75.49	75.49 N	200.48 W	214.23	290.63	1.79	1.7	5.0
19	MWD	5492	5.00	319.10	63	5484.63	79.75	79.75 N	203.85 W	218.90	291.37	0.72	0.2	-8.1
20	MWD	5554	5.00	317.30	62	5546.40	83.78	83.78 N	207.46 W	223.73	291.99	0.25	0.0	-2.9
21	MWD	5618	4.60	313.30	64	5610.17	87.59	87.59 N	211.21 W	228.65	292.52	0.81	-0.6	-6.3
22	MWD	5681	4.60	305.00	63	5672.97	90.77	90.77 N	215.12 W	233.49	292.88	1.06	0.0	-13.2
23	MWD	5742	3.80	290.90	61	5733.81	92.89	92.89 N	219.01 W	237.90	292.98	2.13	-1.3	-23.1
24	MWD	5805	3.40	279.90	63	5796.68	93.96	93.96 N	222.81 W	241.81	292.87	1.26	-0.6	-17.5
25	MWD	5868	4.10	283.50	63	5859.55	94.81	94.81 N	226.84 W	245.85	292.68	1.17	1.1	5.7



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								N/S (ft)	E/W (ft)	Dist (ft)	Ang (°)			
26	MWD	5931	3.50	280.70	63	5922.41	95.69	95.69 N	230.92 W	249.96	292.51	1.00	-1.0	-4.4
27	MWD	5994	3.70	284.90	63	5985.28	96.57	96.57 N	234.77 W	253.85	292.36	0.53	0.3	6.7
28	MWD	6057	3.00	301.90	63	6048.18	97.96	97.96 N	238.13 W	257.50	292.36	1.92	-1.1	27.0
29	MWD	6119	2.90	301.50	62	6110.10	99.64	99.64 N	240.85 W	260.64	292.47	0.16	-0.2	-0.6
30	MWD	6149	3.30	301.70	30	6140.05	100.49	100.49 N	242.23 W	262.25	292.53	1.33	1.3	0.7
31	MWD	6181	3.60	300.20	32	6171.99	101.48	101.48 N	243.88 W	264.15	292.59	0.98	0.9	-4.7
32	MWD	6241	3.90	303.30	60	6231.87	103.55	103.55 N	247.22 W	268.02	292.73	0.60	0.5	5.2
33	MWD	6303	2.90	310.40	62	6293.76	105.72	105.72 N	250.17 W	271.59	292.91	1.75	-1.6	11.5
34	MWD	6365	2.60	316.80	62	6355.68	107.76	107.76 N	252.33 W	274.38	293.13	0.69	-0.5	10.3
35	MWD	6428	2.30	323.10	63	6418.63	109.81	109.81 N	254.07 W	276.78	293.38	0.64	-0.5	10.0
36	MWD	6491	3.40	345.90	63	6481.55	112.64	112.64 N	255.28 W	279.03	293.81	2.47	1.7	36.2
37	MWD	6554	4.00	4.80	63	6544.42	116.64	116.64 N	255.55 W	280.91	294.53	2.14	1.0	-541.4
38	MWD	6615	4.00	18.00	61	6605.27	120.78	120.78 N	254.72 W	281.90	295.37	1.51	0.0	21.6