

FORM
4
Rev 12/05

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)



1. OGCC Operator Number: <u>90700</u>	4. Contact Name <u>BRIAN BENTLEY</u>	Complete the Attachment Checklist OP OGCC
2. Name of Operator: <u>TWIN ARROW INC.</u>	Phone: <u>303-892-8830</u>	
3. Address: <u>10390 WEST BRADFORD ROAD, SUITE 218</u> City: <u>LITTLETON</u> State: <u>CO</u> Zip: <u>80127</u>	Fax: <u>720-922-3129</u>	
5. API Number <u>05-103-07240</u>	OGCC Facility ID Number	Survey Plat
6. Well/Facility Name: <u>UNIVERSITY OF TEXAS</u>	7. Well/Facility Number <u>8-5</u>	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): <u>NWNW 5 1N 102W 6th PM</u>		Surface Eqpmt Diagram
9. County: <u>RIO BLANCO</u>	10. Field Name: <u>RANGELY</u>	Technical Info Page <input checked="" type="checkbox"/>
11. Federal, Indian or State Lease Number: <u>FEE</u>		Other GPS DATA <input checked="" type="checkbox"/>

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude 40.091246 Distance to nearest property line Distance to nearest bldg, public rd, utility or RR

Longitude 108.872956 Distance to nearest lease line Is location in a High Density Area (rule 603b)? Yes/No

Ground Elevation Distance to nearest well same formation Surface owner consultation date:

GPS DATA:
Date of Measurement 10/1/2008 PDOP Reading 2.20 MEAN Instrument Operator's Name BRIAN BENTLEY

CHANGE SPACING UNIT
Formation Formation Code Spacing order number Unit Acreage Unit configuration

☐ Remove from surface bond
Signed surface use agreement attached

CHANGE OF OPERATOR (prior to drilling):
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

CHANGE WELL NAME NUMBER
From:
To:
Effective Date:

☒ **ABANDONED LOCATION:**
Was location ever built? ☒ Yes ☐ No
Is site ready for inspection? ☒ Yes ☐ No
Date Ready for Inspection: INSPECTED 10/2/2008

☐ **NOTICE OF CONTINUED SHUT IN STATUS**
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ **SPUD DATE:**

☐ **REQUEST FOR CONFIDENTIAL STATUS** (6 mos from date casing set)

☐ **SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK** *submit cbl and cement job summaries
Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date

☒ **RECLAMATION:** Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately ☒ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent
Approximate Start Date:

☒ Report of Work Done
Date Work Completed: 10-1-8

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: <u>GPS DATA</u>	for Spills and Releases

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

Signed: Brian Bentley Date: 11/09/2008 Email: brianbent@aol.com

Print Name: BRIAN S. BENTLEY Title: PRESIDENT

COGCC Approved: K. J. Kij Title: EIT III Date: 8/11/09

CONDITIONS OF APPROVAL, IF ANY:



Page 2

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

RECEIVED

NOV 14 2008

COGCC

1. OGCC Operator Number: 90700 API Number: 05-103-07240
2. Name of Operator: TWIN ARROW INC. OGCC Facility ID #
3. Well/Facility Name: UNIVERSITY OF TEXAS Well/Facility Number: 8-5
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW 5 1N 102W 6th PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

WELL STATUS PER COGIS: DA

Theoretical well position has been staked at GPS location, which was calculated from footages, indicated in COGIS, also noted below. Instrument position accuracy < 5 feet.

No labeled well marker specifying this well was found within visual horizon of GPS stake. No unlabeled well marker or well bore found within 150 foot radius of GPS stake. GPS stake assumed to be center point for location remediation and reclamation.

RECLAMATION

Surface designation in COGIS: No designation. Assumed Fee.

No evidence of production facilities.

Out to radius of 150 feet from GPS stake: Cuttings and trash removed. No recontour necessary. Location spot re-seeded as necessary.

GPS OF WELL LOCATION (NAD 83 Datum)

40.0912460 deg N latitude

108.8729560 deg W longitude

Position Dilution of Precision (PDOP) 2.20 mean, standard deviation 0.31. Readings taken every 30 minutes during period 8 am thru 6 pm inclusive on 10/1/2008. Representative PDOP profile for Rangely CO. Data attached.

GPS stake positioned by Twin Arrow, Inc., Operator

Pharos iGPS-BT (mfr specs below; location/date/time PDOP and instrument accuracy data attached.)

IV. iGPS-BT GPS Receiver Specifications

Performance	
Chipset	SiRF StarIIe/LP
Antenna	Integrated patch antenna
Frequency	L1, 1575.42 MHz
Sensitivity	-140 dBm (typical)
Channels	12 Channel all-in-view tracking
Acquisition time (Avg.)	Cold Start: 60 sec
	Warm Start: 40 sec
	Hot Start: 5 sec
Reacquisition	0.1 sec
Position update	1 Hz
Accuracy	Position: 10 meters 2D-RMS, SA off
	Velocity: 0.1 meter/second, SA off
	Time: 1 microsecond synchronized to GPS time
	Datum: WGS-84



Planning: List of DOP values

www.trimble.com

Planning / Copyright (C) 2001 - 2008 by Trimble Navigation Limited.

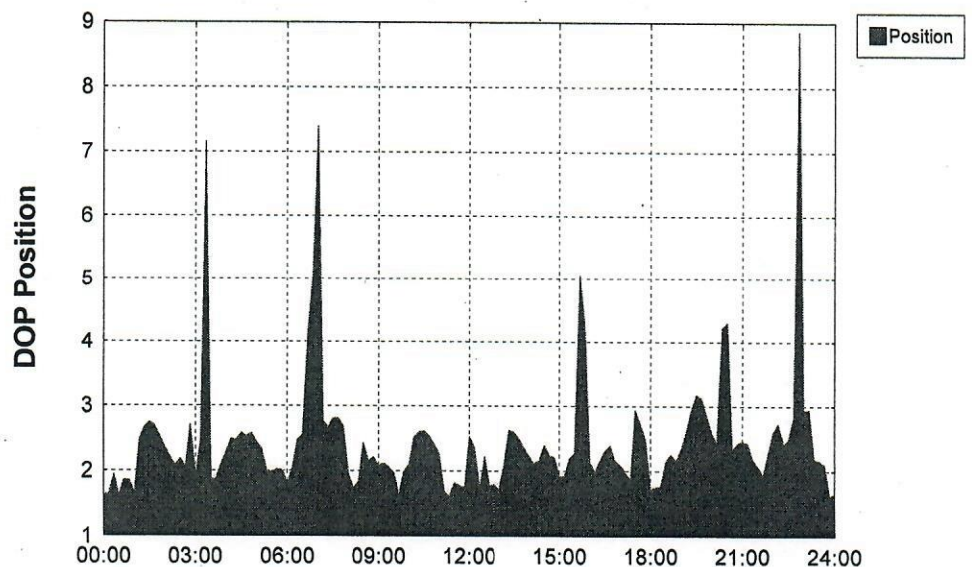


Station name	W of Rangely CO
Latitude	40° 06'
Longitude	108° 52'
Height	1 [m]
Time span	10/1/2008/8:00:00 AM - 10/1/2008/6:00:00 PM
Time zone	Mountain Standard Time (DST)
Offset UTC	-6.0 [h]
Elevation cutoff	15°
Obstruction Editor	0%
GPS Satellites	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Glonass Satellites	- none -
Galileo Satellites	- none -
Compass Satellites	- none -

Time	GDOP	TDOP	PDOP	HDOP	VDOP	GPS	GLN	GAL	COM	Total
08:00	2.22	1.07	1.95	0.99	1.68	9	0	0	0	9
08:30	2.83	1.47	2.42	1.13	2.14	9	0	0	0	9
09:00	2.40	1.21	2.08	1.00	1.82	11	0	0	0	11
09:30	2.30	1.19	1.96	0.95	1.72	10	0	0	0	10
10:00	2.46	1.30	2.08	1.18	1.72	10	0	0	0	10
10:30	3.18	1.83	2.60	1.14	2.34	9	0	0	0	9
11:00	2.73	1.53	2.26	1.14	1.95	9	0	0	0	9
11:30	2.09	1.04	1.82	1.16	1.40	9	0	0	0	9
12:00	3.02	1.66	2.52	1.33	2.14	8	0	0	0	8
12:30	2.56	1.29	2.21	1.33	1.77	8	0	0	0	8
13:00	1.93	0.90	1.71	0.92	1.44	10	0	0	0	10
13:30	3.01	1.54	2.58	1.32	2.22	8	0	0	0	8
14:00	2.56	1.29	2.22	1.20	1.87	8	0	0	0	8
14:30	2.75	1.37	2.39	1.36	1.96	6	0	0	0	6
15:00	2.15	0.96	1.92	1.15	1.54	6	0	0	0	6
15:30	2.62	1.30	2.27	1.28	1.88	5	0	0	0	5
16:00	2.44	1.20	2.13	1.14	1.80	6	0	0	0	6
16:30	2.65	1.30	2.30	1.05	2.05	7	0	0	0	7
17:00	2.38	1.16	2.08	1.01	1.82	8	0	0	0	8
17:30	3.52	1.95	2.94	1.53	2.51	6	0	0	0	6
18:00	1.96	0.94	1.72	1.03	1.37	8	0	0	0	8

Mean	2.198095238
Standard Error	0.067600433
Median	2.21
Mode	2.08
Standard Deviation	0.309784103
Sample Variance	0.09596619
Kurtosis	0.217156569
Skewness	0.458901085
Range	1.23
Minimum	1.71
Maximum	2.94
Sum	46.16
Count	21
Largest(1)	2.94
Smallest(1)	1.71
Confidence Level(95.0%)	0.141011968

DOP Position



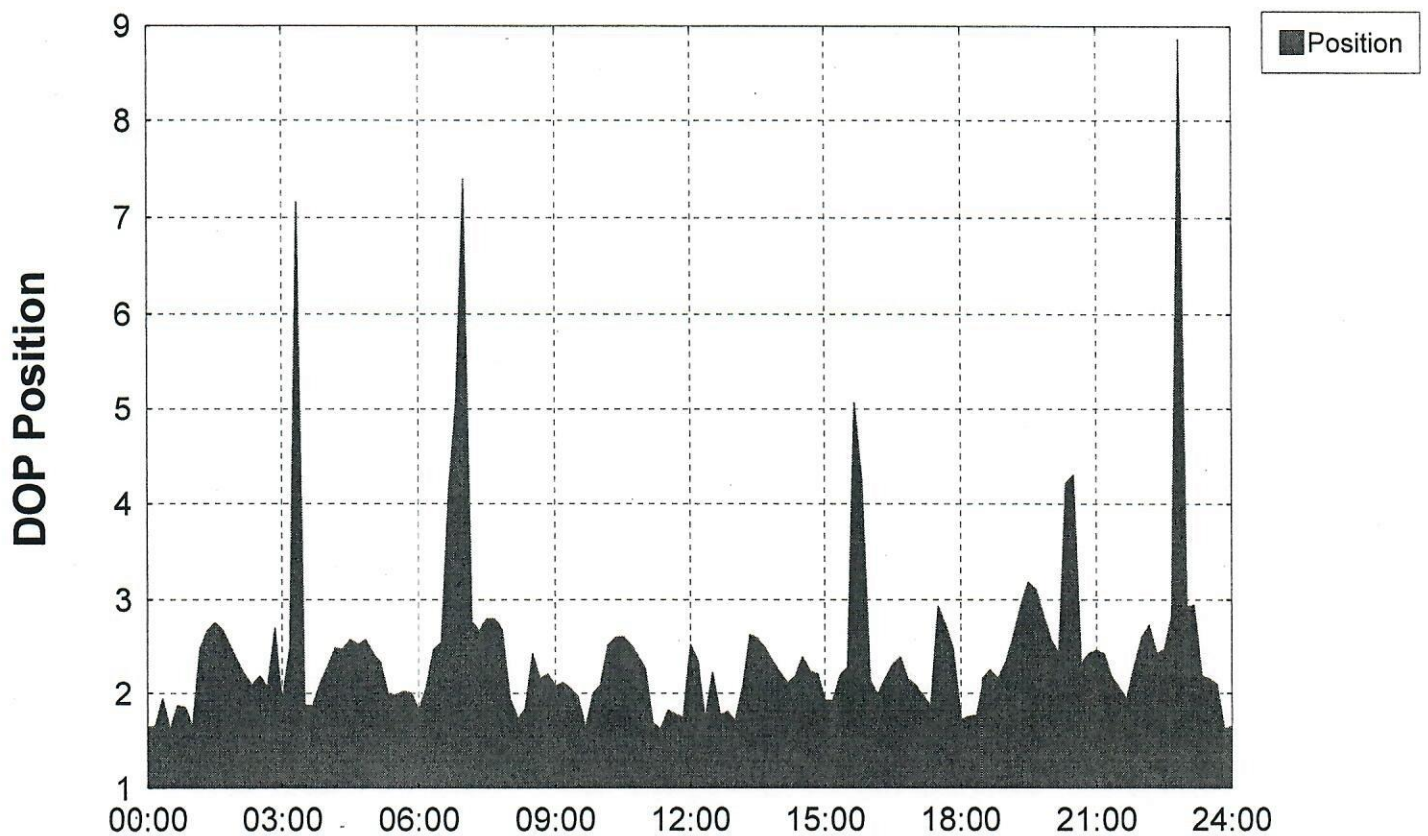
on W of Rangely CO North 40° 6' West 108° 52' Height 1m Elevation cutoff 15° Obstacles 0%
10/1/2008 00:00 - 10/2/2008 00:00 (UTC-6.0h) Satellites 31 GPS 31 [Almanac.alm (6/24/2008)]



Station name	W of Rangely CO
Latitude	40° 06'
Longitude	108° 52'
Height	1 [m]
Time span	10/1/2008/2:00:00 PM - 10/1/2008/3:00:00 PM
Time zone	Mountain Standard Time (DST)
Offset UTC	-6.0 [h]
Elevation cutoff	15°
Obstruction Editor	0%
GPS Satellites	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Glonass Satellites	- none -
Galileo Satellites	- none -
Compass Satellites	- none -

Time	GDOP	TDOP	PDOP	HDOP	VDOP	GPS	GLN	GAL	COM	Total
14:00	2.56	1.29	2.22	1.20	1.87	8	0	0	0	8
14:10	2.42	1.20	2.11	1.17	1.75	8	0	0	0	8
14:20	2.50	1.25	2.17	1.18	1.82	7	0	0	0	7
14:30	2.75	1.37	2.39	1.36	1.96	6	0	0	0	6
14:40	2.55	1.23	2.23	1.31	1.81	6	0	0	0	6
14:50	2.53	1.23	2.20	1.27	1.80	6	0	0	0	6
15:00	2.15	0.96	1.92	1.15	1.54	6	0	0	0	6

Pharos I GPS-BT computed
measurement error
DOP Position = ± 4.59 ft



Station W of Rangely CO North 40° 6' West 108° 52' Height 1m
Time 10/1/2008 00:00 - 10/2/2008 00:00 (UTC-6.0h)

Elevation cutoff 15° Obstacles 0%
Satellites 31 GPS 31 [Almanac.alm (6/24/2008)]

Station name	KCNR Littleton CO
Latitude	39° 35'
Longitude	105° 11'
Height	1 [m]
Time span	9/29/2008/10:00:00 AM - 9/29/2008/11:00:00 AM
Time zone	Mountain Standard Time (DST)
Offset UTC	-6.0 [h]
Elevation cutoff	15°
Obstruction Editor	0%
GPS Satellites	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Glomass Satellites	- none -
Galileo Satellites	- none -
Compass Satellites	- none -

Time	GDOP	TDOP	PDOP	HDOP	VDOP	GPS	GLN	GAL	COM	Total
10:00	2.35	1.22	2.01	1.16	1.65	10	0	0	0	10
10:10	2.48	1.32	2.10	1.18	1.74	10	0	0	0	10
10:20	2.52	1.36	2.12	1.17	1.77	10	0	0	0	10
10:30	3.17	1.81	2.61	1.19	2.32	9	0	0	0	9
10:40	3.17	1.83	2.59	1.12	2.34	9	0	0	0	9
10:50	3.05	1.76	2.50	1.09	2.25	9	0	0	0	9
11:00	2.87	1.63	2.36	1.09	2.10	9	0	0	0	9

Pharos IGPS-BT computed measurement error = ± 2.95 ft

DOP Position

