



Well History

Well Name: **Moody 41-32D**

API 05123281160000		Surface Legal Location SWNE 32 7N 66W		Field Name Eaton		State CO		Well Configuration Type Directional			
Ground Elevation (ft) 4,898.00		Original KB Elevation (ft) 4,912.00		KB-Ground Distance (ft) 14.00		Spud Date 3/16/2011 14:45		Rig Release Date 3/21/2011 12:30		On Production Date 5/16/2011	

Job

Drilling - original, 3/16/2011 11:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 3/16/2011	End Date 3/21/2011	Objective Directionally drill and log new Codell well
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Daily Operations

Start Date	Summary	End Date
3/2/2011	M & M Excavation built location, access to location, trenching and berming around location was done for appropriate BMP's. Holloway Enterprises moved in two fresh water tanks and began hauling fresh water. RMES hauled spud mud. DJR installed temp fence. Location is prepared for rig move.	3/3/2011
3/16/2011	Ensign Rig 5 spud at 14:45 hours 16-Mar-11. Drilled 12-1/4" surface hole to 961'. Ran 21 joints 8-5/8", 24#/ft casing (937') set at 951' KB. Currently cementing casing.	3/17/2011
3/17/2011	Cementers Energy cemented casing with 670 sacks Class "G" + 3% CaCl ₂ + 1/4# celloflake/sk (15.2 ppg, 1.18 ft ³ /sk). Plug down at 06:30 hours 17-Mar-11. Circulated cement. NU BOP. Tested BOP and casing to 600 psig. Currently drilling at 2423' (1462'). 7-7/8" Bit #1:FX55M. Drilling with water. Last survey: 20.6 at 55.4 azimuth at 2287'. Coord: 155' N, 178' E, 236' VS, 2257' TVD. BHA: Bit, motor, ubho, 2 monel DC's, 12 joints HWDP and XO (461').	3/18/2011
3/18/2011	Drilling at 5755' (2235'). 7-7/8" Bit #1:FX55M. Drilling with water. Last survey: 18.8 at 57.2 azimuth at 5328'. Coord: 760' N, 930' E, 1200' VS, 5139' TVD. BHA: Bit, motor, ubho, 2 monel DC's, 12 joints HWDP and XO (461').	3/19/2011
3/19/2011	Drilled to 6825'. TOH for MWD tool. TIH. Currently drilling at 6983' (1550'). 7-7/8" Bit #1:FX55M. Drilling with water. Last survey: 0.7 at 327.1 azimuth at 6941'. Coord: 856' N, 1012' E, 1325' VS, 6740' TVD. BHA: Bit, motor, ubho, 2 monel DC's, 12 joints HWDP and XO (461').	3/20/2011
3/20/2011	Drilled to 7742' TD (759'). 7-7/8" Bit #1:FX55M. Mud wt. 9.3; visc. 55. Projected survey at TD: 0.4 at 291.3 azimuth at 7742'. Coord: 861' N, 1003' E, 1322' VS, 7541' TVD. BHA: Bit, motor, ubho, 2 monel DC's, 12 joints HWDP and XO (461'). Made short trip above Niobrara. C&C mud. LDDP. PSI ran DIL, CDL, CNL, GR from 7747'. Currently running 4-1/2" casing. Note: Reached TD at 12:30 hours 20-Mar-11.	3/21/2011
3/21/2011	Ran 4-1/2" casing and cemented. Rig released at 12:30 hours 21-Mar-11.	3/21/2011

Initial Completion, 3/21/2011 01:45

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 3/21/2011	End Date 5/17/2011	Objective
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Daily Operations

Start Date	Summary	End Date
4/5/2011	MIRU Superior Wireline. Ran GR/VDL/CBL log finding PBTD @ 7710' and Tail Cement Top @ 6200' Sussex and Shannon have complete coverage, and Lead Cement at Surface. Perforated the Codell formation from 7581'-7589' (3 spf, 11 gram charges, 0.36" entry holes, and 16.82" penetration) 24 holes total. Prepared well for Codell stimulation.	4/5/2011
4/30/2011	2 Stage Codell / Niobrara: MIRU HES. Well was loaded @ open. (Break 3083 psi @ 5.0 BPM) Pumped 120 bbls of Active pad. Pumped 477 bbls of Slickwater pad, 144 bbls of 22# pHaser pad, 288 bbls of 1.0 ppg 20/40 slurry with 22# pHaser, 478 bbls of 2.0 ppg 20/40 slurry with 22# pHaser, 645 bbls of 3.0 ppg 20/40 slurry with 22# pHaser, 490 bbls of 4.0 ppg 20/40 slurry with 22# pHaser, 84 bbls of 4.0 ppg SB Excel slurry with 22# pHaser. Flushed well to top of the Codell perf (117.8 bbls) with a 3 bbl spacer followed by 24 bbls of 15% HCl followed by 91 bbls claytreated water (Spotting acid @ bottom of Niobrara B Bench). Shutdown (ISDP 3980 psi). Fluid contained the following chemicals: .6 gpt CL-23, .4 gpt BA-20, 2.0 gpt GasPerm 1100, 1.25 gpt Clayfix III, 0.5 - 3.0 gpt Vicon NF, 0.15 - 0.75 gpt CAT 3, 2.0 gpt FR-66, 24 ppt WG-18 (217900 lbs 20/40 Preferred Rock) (8000 lbs 20/40 SB Excel). RD HES, MIRU PSI Wireline. MTP = 4781 psi, ATP = 4624 psi, AIR = 35.2 bpm. Pressure response was slightly positive for entire treatment. Treatment went good.	4/30/2011
4/30/2011	Niobrara Hybrid: RIH with PSI wireline using High pressure control unit and grease head. Set RMOR Cast Iron Flowthrou 10k frac plug @ 7710' with a Baker #10. Duel fire 3 1/8" slick gun and EXT charges (22.7 gram, .42 entry hole, 35.1" penetration, 120 degree phasing). Niobrara "B" Bench @ 7400'-7408' (3 SPF) Niobrara A Bench @ 7275' - 7277' (2 SPF) (28 New holes). POOH and RDMO PSI Wireline. MIRU HES. Well was loaded @ open. (Break 5357 psi @ 5.0 BPM) Pumped 128 bbls FE-1A Pad, 1549 bbls of Slickwater pad, 145 bbls of 20# pHaser pad, 167 bbls of 1.0 ppg 20/40 slurry with 20# pHaser, 790 bbls of 2.0 ppg 20/40 slurry with 20# pHaser, 838 bbls of 3.0 ppg 20/40 slurry with 20# pHaser, 366 bbls of 4.0 ppg 20/40 slurry with 20# pHaser, 58 bbls of 4.0 ppg SB Excel 20/40 slurry with 20# pHaser. Flushed well to top of the Niobrara B perf (115.0 bbls) Shutdown (ISDP 4047 psi). Fluid contained the following chemicals: .6 gpt CL-23, 1.0 gpt BA-20, 2.0 gpt GasPerm 1100, 1.25 gpt Clayfix III, 0.5 - 3.0 gpt Vicon NF, 0.15 - .75 gpt CAT 3, 2.0 gpt FR-66, 22 ppt WG-18 (239160 lbs 20/40 Preferred Rock) (12000 20/40 SB Excel. RD HES. MTP = 6175 psi, ATP = 5679 psi, AIR = 55.5 bpm. Pressure response was flat for entire treatment. Treatment went good.	4/30/2011
5/16/2011	SCP 1500 psi, open flowing to flow back tank, SSCP 0 psi, MIRU Bayou rig 004, Adams and Sons delivered out 252 jts new 2 3/8" 4.7# J-55 EUE 8rd tbg, blew well down to flow back tank for 1.5 hours, pressures down to 100 psi, attempted to control well pumped 12bbls Claytreat/Biocide water, well loaded up, started flowing, flowed for 2 hours recovered 90 bbls of fluid, controlled well w 60 bbls Claytreat/ Biocide water, ND WH, remove 4 1/2" frac valve, install new 3K Well Head Inc mandrel style tbg head, NU BOP, PU RMOR's 3 7/8" x 6' waved bttm burn shoe, TIH picking up tallying production tbg, in hole w/ 43 jts well kicked off started flowing, flowing to rig tank, pressure down, controlled w/ 15 bbls, continued TIH w/ tubing, in hole w/ 76 jts, well kicked off started flowing, flowed to rig tank, pressure down controlled w/ 15 bbls, continued TIH tagged plug @ 7513' KB and tools w/231 jts (tagged no fill), TOOH standing back 10 jts, LD 1 jts, SI and isolated well, drained lines, prepared for next days operations, Recovered a total of 205 bbls of fluid to flow back tank, SDFN.	5/16/2011



Well History

Well Name: **Moody 41-32D**

API 05123281160000		Surface Legal Location SWNE 32 7N 66W		Field Name Eaton		State CO		Well Configuration Type Directional			
Ground Elevation (ft) 4,898.00		Original KB Elevation (ft) 4,912.00		KB-Ground Distance (ft) 14.00		Spud Date 3/16/2011 14:45		Rig Release Date 3/21/2011 12:30		On Production Date 5/16/2011	

Daily Operations

Start Date	Summary	End Date
5/17/2011	STP 350 psi, SCP 400 psi, SSCP 0 psi, blew well down to rig tank, control well w/30 bbls treated fluid, TIH w/ production tbg, RU to clean out, circulated down tagging plug at 7513' KB and tools w/231 jts, drilled up plug and chased to 7631.47' KB and tools w/ 235 jts tagging fill again, continue circulating down to 7710' KB (PBSD) w/237 jts, rolled hole clean, LD 5 jts, POOH to derrick w/232 jts, LD tools, PU new 2 3/8" standard sn/nc, TIH w/production tbg, PU tbg subs, ND BOP, land tbg in WH 7567.06' (13.94' above the Codell) KB, NU WH, dropped new PCS full port standing valve and chased to seatnipple w/1.901" broach, isolate well, RDMO. Tbg detail: 8.0' x 2 3/8" tbg sub 11.0.0' adj KB 11.0' 10.0' x 2 3/8" tbg sub 8.0' 19.0' 232 jts 2 3/8" 4.7# J-55 EUE 8rd 10.0' 29.0' Seatnipple/notched collar 7536.46' 7565.46' 1.60' 7567.06' EOT KB	5/17/2011
10/19/2015	Core Tech dropped Standing valve, new slide and sleeve bypass plunger, RIH w/ 2" JDC and set rebuilt 2 stage @5327, dropped new TWNG and new slide and sleeve bypass plunger, RIH w/ 2" JDC and set rebuilt 2 stage @ 2658', dropped new TWNG and used PCS AS. RDMO.	10/19/2015

Wireline, 1/18/2017 12:00

Job Category Other	Primary Job Type Wireline	Start Date 1/18/2017	End Date 1/18/2017	Objective REBUILD 2 STAGE
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Daily Operations

Start Date	Summary	End Date
11/23/2016	Coretech RU, RIH w/ 2" JDC to fish TWNG @ 2648', 2 stage @ 2650', bypass plgr @ 5309', No fish 3X times on TWNG. RDMO	1/23/2017
1/18/2017	Coretech RU, RIH w/ Paraffin scratcher to fish TWNG @ 7556', RIH w/ 1.85" impression block revealed top of nut. RIH w/ 1.75" magnet no fish. RIH w/ baited overshot no fish. RIH w/ large overshot, fished nut @ 7556'. RIH w/ 2" JUC fished bypass plgr @ 7557'. Dropped new bypass plgr, rebuilt and reset 2 stage @ 5320'. Dropped new TWNG and bypass plgr. Rebuilt and reset 2 stage @ 2653'. Dropped new TWNG and plgr. RDMO	1/18/2017

WBI - Plug Set Other Operator, 8/6/2018 06:00

Job Category Completion/Workover	Primary Job Type WBI - Plug Set Other Operator	Start Date 8/6/2018	End Date 8/7/2018	Objective TEST TUBING, SET A PLUG ABOVE THE TOP PERFS, TEST CASING AND INSTALL 5K WELL HEAD FOR WBI.
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Daily Operations

Start Date	Summary	End Date
8/6/2018	ITP 1300 PSI, ICP 1000 PSI, ISCP 0 PSI, WELL WAS SHUT IN, MIRU ENSIGN RIG 354, BLEW DOWN WELL TO RIG TANK, FUNCTION TESTED BOP, PUMPED 30 BBL OF CLAYTREAT/BIOCIDE WATER DOWN CASING, PUMPED 5 BBL DOWN TBG AND IT PRESSURED UP, RU SWAB LUBRICATOR, FISHED OUT STAGE TOOL AT 2653', MADE ANOTHER RUN AND FISHED SECOND STAGE TOOL AT 5320', ND PRODUCTION TREE, NU BOP, PICKED UP TAG JTS, TAGGED WITH 5 JTS 150', LD TAG JTS, TALLY OUT OF THE HOLE WITH 2 3/8 PRODUCTION PIPE TO DERRICK, TBG WAS LANDED AT 7568.77' WITH 232 JTS AND NC/SN, MIRU PICK TESTERS, PU STS'S 3 7/8 BLADE BIT AND 4 1/2 SCRAPER DRESSED FOR 11.6 CASING, RIH WITH PRODUCTION PIPE DOWN TO 7542' WITH 232 JTS, RD HYDRO TESTER, ALL PIPE TESTED GOOD, LD 15 JTS ON THE GROUND, PULLED 60 JTS TO DERRICK, SI AND SECURE WELL FOR THE NIGHT, SD.	8/6/2018
8/7/2018	ITP 250 PSI, ICP 250 PSI, BLEW DOWN WELL TO RIG TANK, FINISHED PULLING PIPE TO DERRICK, LD BIT AND SCRAPER, MIRU C&J WIRE LINE, PU 4 1/2 10K CIBP, RIH WITH WIRE LINE, SET CIBP AT 7225' CORRELATED WITH LOGS, SPOTTED 2 SACKS OF CEMENT ON TOP OF THE PLUG, RD WIRE LINE, PU 3 7/8 CONE BIT, PUMP OFF BIT SUB AND SEAT NIPPLE, RIH WITH PRODUCTION PIPE DOWN TO 7065.25' WITH 217 JTS, RU CIRCULATING EQUIPMENT, CIRCULATED OIL AND GAS OUT PUMPING DOWN TUBING, PRESSURE TESTED CASING AND PLUG UP TO 2000 PSI, HELD GOOD FOR 15 MINUTES, RU SWAB LUBRICATOR, MADE A BROACH RUN DOWN TO SEAT NIPPLE (1.901"), LD BROACH, PU 2" SWAB CUPS, MADE A SWAB RUN DOWN TO 500', RD SWAB LUBRICATOR, LD 3 JTS, ND BOP, INSTALLED 5K TOP FLANGE AND 2 3/8 MASTER VALVE, LANDED TUBING AT 6967.71' KB WITH 214 JTS, SEAT NIPPLE, PUMP OFF BIT SUB AND 3 7/8 CONE BIT, MIRU PICK TESTERS, TORQUE AND TESTED WELL HEAD UP TO 5000 PSI, RECORDED THE TEST FOR 15 MINUTES, RACK PUMP AND TANK, RDMOL. FINAL REPORT. TUBING DETAILS KB 11.00 218 JTS 2 3/8 J-55 4.7 6953.51 SEAT NIPPLE 1.20 PUMP OFF BIT SUB 2.00 TOTAL 6967.71 NOTE: SENT 18 GOOD JTS OF 2 3/8 J-55 TO RMI TO PDC'S INVENTORY.	8/7/2018



Daily Completion Operations

Date: 8/7/2018

Report #: 2.0

Well Name: Moody 41-32D

Well Name Moody 41-32D	Operator PDC Energy Inc.	API 05123281160000	Well Number 105.090504	Last Mod By echavez
District Evans	Field Name Eaton	County Weld	State CO	
Well Type Development	Surface Legal Location SWNE 32 7N 66W	Spud Date 3/16/2011	Original KB Elevation (ft) 4,912.00	Ground Elevation (ft) 4,898.00
				KB-Ground Distance (ft) 14.00

Daily Operation: 8/7/2018 06:00 - 8/7/2018 15:00

AFE Number	Job Category Completion/Workover	Objective TEST TUBING, SET A PLUG ABOVE THE TOP PERFS, TEST CASING AND INSTALL 5K WELL HEAD FOR WBI.	Start Date 8/6/2018	End Date 8/7/2018	Primary Job Type WBI - Plug Set Other Operator	Secondary Job Type
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Rigs

Contractor Ensign	Rig Number 354
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Daily Operations

Report Start Date 8/7/2018	Report End Date 8/7/2018	Daily Field Est Total (Cost) 12,098.00	Cum Field Est To Date (Cost) 20,424.00
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Status at Reporting Time

Operations Summary

ITP 250 PSI, ICP 250 PSI, BLEW DOWN WELL TO RIG TANK, FINISHED PULLING PIPE TO DERRICK, LD BIT AND SCRAPER, MIRU C&J WIRE LINE, PU 4 1/2 10K CIBP, RIH WITH WIRE LINE, SET CIBP AT 7225' CORRELATED WITH LOGS, SPOTTED 2 SACKS OF CEMENT ON TOP OF THE PLUG, RD WIRE LINE, PU 3 7/8 CONE BIT, PUMP OFF BIT SUB AND SEAT NIPPLE, RIH WITH PRODUCTION PIPE DOWN TO 7065.25' WITH 217 JTS, RU CIRCULATING EQUIPMENT, CIRCULATED OIL AND GAS OUT PUMPING DOWN TUBING, PRESSURE TESTED CASING AND PLUG UP TO 2000 PSI, HELD GOOD FOR 15 MINUTES, RU SWAB LUBRICATOR, MADE A BROACH RUN DOWN TO SEAT NIPPLE (1.901"), LD BROACH, PU 2" SWAB CUPS, MADE A SWAB RUN DOWN TO 500', RD SWAB LUBRICATOR, LD 3 JTS, ND BOP, INSTALLED 5K TOP FLANGE AND 2 3/8 MASTER VALVE, LANDED TUBING AT 6967.71' KB WITH 214 JTS, SEAT NIPPLE, PUMP OFF BIT SUB AND 3 7/8 CONE BIT, MIRU PICK TESTERS, TORQUE AND TESTED WELL HEAD UP TO 5000 PSI, RECORDED THE TEST FOR 15 MINUTES, RACK PUMP AND TANK, RDMOL.

FINAL REPORT.**TUBING DETAILS**

KB	11.00
218 JTS 2 3/8 J-55 4.7	6953.51
SEAT NIPPLE	1.20
PUMP OFF BIT SUB	2.00
TOTAL	6967.71

NOTE: SENT 18 GOOD JTS OF 2 3/8 J-55 TO RMI TO PDC'S INVENTORY.

Operations Next Report Period**FINAL REPORT.**

Weather	Temperature (°F)	Hole Condition	Road Condition
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Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code	Code Des	Com
06:00	07:00	1.00	1.00	TRAV	Travel - To Location	CREW TRAVEL, SAFETY MEETING.
07:00	08:00	1.00	2.00	PULT	Pull Tubing	PULLED 156 JTS TO DERRICK.
08:00	09:30	1.50	3.50	WLWK	Wireline	SET CIBP AT 7225' WITH 2 SACKS OF CEMENT ON TOP.
09:30	11:00	1.50	5.00	RUTB	Run Tubing	RIH WITH PUMP OFF BIT SUB.
11:00	11:30	0.50	5.50	CIRC	Circulating	CIRCULATE OIL AND GAS OUT.
11:30	12:00	0.50	6.00	PTST	Pressure Test	PRESSURE TEST CASING AND PLUG UP TO 2500 PSI FOR 15 MINUTES.
12:00	12:30	0.50	6.50	ROTH	Other Rig Work	MADE A BROACH RUN DOWN TO SEAT NIPPLE, MADE A SWAB RUN DOWN TO 500'.
12:30	13:00	0.50	7.00	BOPR	Remove BOP's	ND BOP, INSTALL 5K TOP FLANGE.
13:00	14:00	1.00	8.00	SRIG	Rig Up/Down	RACK PUMP AND TANK RIG DOWN.
14:00	15:00	1.00	9.00	TRAV	Travel - From Location	



Daily Completion Operations

Date: 8/6/2018

Report #: 1.0

Well Name: Moody 41-32D

Well Name Moody 41-32D	Operator PDC Energy Inc.	API 05123281160000	Well Number 105.090504	Last Mod By echavez
District Evans	Field Name Eaton	County Weld	State CO	
Well Type Development	Surface Legal Location SWNE 32 7N 66W	Spud Date 3/16/2011	Original KB Elevation (ft) 4,912.00	Ground Elevation (ft) 4,898.00
				KB-Ground Distance (ft) 14.00

Daily Operation: 8/6/2018 06:00 - 8/6/2018 18:00

AFE Number	Job Category Completion/Workover	Objective TEST TUBING, SET A PLUG ABOVE THE TOP PERFS, TEST CASING AND INSTALL 5K WELL HEAD FOR WBI.	Start Date 8/6/2018	End Date 8/7/2018	Primary Job Type WBI - Plug Set Other Operator	Secondary Job Type
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Rigs

Contractor Ensign	Rig Number 354
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Daily Operations

Report Start Date 8/6/2018	Report End Date 8/6/2018	Daily Field Est Total (Cost) 8,326.00	Cum Field Est To Date (Cost) 8,326.00
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Status at Reporting Time

Operations Summary

ITP 1300 PSI, ICP 1000 PSI, ISCP 0 PSI, WELL WAS SHUT IN, MIRU ENSIGN RIG 354, BLEW DOWN WELL TO RIG TANK, FUNCTION TESTED BOP, PUMPED 30 BBL OF CLAYTREAT/BIOCIDE WATER DOWN CASING, PUMPED 5 BBL DOWN TBG AND IT PRESSURED UP, RU SWAB LUBRICATOR, FISHED OUT STAGE TOOL AT 2653', MADE ANOTHER RUN AND FISHED SECOND STAGE TOOL AT 5320', ND PRODUCTION TREE, NU BOP, PICKED UP TAG JTS, TAGGED WITH 5 JTS 150', LD TAG JTS, TALLY OUT OF THE HOLE WITH 2 3/8 PRODUCTION PIPE TO DERRICK, TBG WAS LANDED AT 7568.77' WITH 232 JTS AND NC/SN, MIRU PICK TESTERS, PU STS'S 3 7/8 BLADE BIT AND 4 1/2 SCRAPER DRESSED FOR 11.6 CASING, RIH WITH PRODUCTION PIPE DOWN TO 7542' WITH 232 JTS, RD HYDRO TESTER, ALL PIPE TESTED GOOD, LD 15 JTS ON THE GROUND, PULLED 60 JTS TO DERRICK, SI AND SECURE WELL FOR THE NIGHT, SD.

Operations Next Report Period

FINISH PULLING PIPE, SET PLUG AT 7225', RIH WITH TBG, TEST CASING, LAND WELL, RDMOL.

Weather	Temperature (°F)	Hole Condition	Road Condition
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Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code	Code Des	Com
06:00	07:00	1.00	1.00	TRAV	Travel - To Location	CREW TRAVEL, SAFETY MEETING.
07:00	08:00	1.00	2.00	RMOV	Rig Move	ROAD RIG TO NEW LOCATION.
08:00	09:00	1.00	3.00	SRIG	Rig Up/Down	RIG UP, PUMP, TANK AND RIG.
09:00	10:00	1.00	4.00	WKLL	Kill Well	BLEW DOWN WELL, CONTROL WELL WITH 50 BBL.
10:00	11:00	1.00	5.00	ROTH	Other Rig Work	FISH OUT 2 STAGE TOOLS.
11:00	11:30	0.50	5.50	BOPI	Install BOP's	ND PRODUCTION TREE, NU BOP.
11:30	13:30	2.00	7.50	PULT	Pull Tubing	TAG UP, LD TAG JTS, TALLY OUT OF THE HOLE.
13:30	16:00	2.50	10.00	RUTB	Run Tubing	TEST IN THE HOLE WITH BIT AND SCRAPER.
16:00	17:00	1.00	11.00	PULT	Pull Tubing	RIG DOWN HYDRO TESTER, LD 6 JTS, PULL 60 JTS TO DERRICK.
17:00	18:00	1.00	12.00	TRAV	Travel - From Location	



ENSIGN WELL SERVICES

24020 Weld County Road 46, LaSalle, Colorado 80645
Telephone (970) 284-6006



RIG/UNIT #: 354
TOUR: Day Shift

DAILY WORK RECORD

Ticket No: 4043677-SO2

DATE: 07-Aug-18, 06:00

Page: 1 of 1

COMPANY			
PDC ENERGY, INC		LOCATION: Moody 41-32D (CO, Station: Lasalle)	
ATTENTION: ACCOUNTS PAYABLE		PO:	
BRIDGEPORT, West Virginia, USA 26330		AFE:	



CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	5.00	406.50	2,032.50
Rig Up	1.00	290.00	290.00
Crew Travel	1.00	193.60	193.60
Bird Bath Rental	1.00	30.80	30.80
Tubing Wiper Rubber	1.00	48.00	48.00
Thread Dope	1.00	40.00	40.00
CHARGES & EXPENDABLES SUB-TOTAL			2,634.90
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 2,634.90

ROD & TUBING DETAILS			
ROD DETAILS			
PULLED	SIZE:	PLAIN:	SCRAPERS:
RAN	SIZE:	PLAIN:	SCRAPERS:
NOTES:			
TUBING DETAILS			
PULLED	SIZE:	JOINTS:	TALLY:
RAN	SIZE:	JOINTS:	TALLY:
LANDED AT:		NIPPLE AT:	
NOTES:			
PUMP DETAILS			
SIZE:		SERIAL #:	

PRESSURE TESTS						
FUNCTION BOP	TIME TO OPERATE (s)	LOW (psi)	TIME (min)	HIGH (psi)	TIME (min)	TEST DATE & TIME
INITIAL ACCUM. PRESSURE:		FINAL ACCUM. PRESSURE:		RECHARGE TIME:		
DAILY WALK AROUND: Not run		RAM SAVER: NO		EMERGENCY HORN TEST: Not run		
LEL TEST: Not run		CROWN SAVER: Not run		EMERGENCY ENGINE KILLS: Not run		
DETAILED INSPECTION DATE:				SCBA DRILL DATE:		
MAN DOWN DRILL DATE:				RIG RESCUE DRILL DATE:		
BOP DRILL DATE:				BOP DRILL DURATION:		
IADC DETAILED INSPECTION DATE:						
WEATHER: Sunny		WIND: Calm		TEMP: 0 °F		H2S (%): 0.0

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
07-Aug-18, 06:00	07-Aug-18, 13:00	7.00	BOP - Nipple Up/Down - BOPE & Wellhead	Crew traveled to loc crew held safety meeting check press 250/250/0 bleed down to work tank flowing oil circ 45min clean function test BOP test good TOTH 158jnts to derrick L/D 14jnts to trailer MIRU wireline RIH CIBP set @ 7225' RIH bailer dump 2sxs on plug R/D wireline TITH w/ 3 7/8 bit P/O bit sub S/N 217jnts to 7065.25' R/U Kelly circ well 45min clean press test plug/csg to 2000psi test good R/D Kelly L/D 3jnts land well w/ 214jnts 2 3/8 tbg, S/N, P/O bit sub 3 7/8 cone bit bit landed @ 6967.71'KB 257.29' above CIBP R/U lubricator RIH tbg broach to S/N tbg good R/D lubricator R/D work floor tbg equip N/D BOP removed 3K wellhead installed 5K wellhead top flange master valve MIRU pick testers torque/test well test good R/D pick testers R/D rig R/D pump/tank shut in well installed well fence crew cleaned loc move rig/equip off loc
TOTAL TIME: 7.00 hours				

CREW DETAILS									
ROLE	NAME	START TIME	DURATION (hrs)	TRAVEL TIME (hrs)	PERS. VEH.	TRAVEL DIST (mi)	SUB.	DIST FROM RES (mi)	INJURY FREE
Service Rig Manager	Matthew McGraw	07-Aug-18, 06:00	7.00	0.00	No	0.00		0.00	Yes
Operator	Ever Valverde	07-Aug-18, 06:00	7.00	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	07-Aug-18, 06:00	7.00	0.00	No	0.00		0.00	Yes
Relief Operator	Jorge Acosta	07-Aug-18, 06:00	7.00	0.00	No	0.00		0.00	Yes
Derrickhand	Geovany Cadena Beltran	07-Aug-18, 06:00	7.00	0.00	No	0.00		0.00	Yes

SIGNATURES	
RIG MANAGER/SUPERVISOR'S SIGNATURE: 	The customer agrees that the contractor ("Ensign") will perform the work and supply the materials ("the work") as described within and in accordance with the conditions set out in the IADC contract and in accordance with all exhibits, specifications, schedules and/or parts (if any) attached hereto. OPERATOR'S REP. SIGNATURE:  Eduardo Chavez 970-397-0599



Field Ticket #

22561

Date

NO 22561

8/7/2018

Sater Tools and Services LLC, 2424 6th Ave, Greeley Co 80631 Office 970-356-4644 Fax 970-356-0185

Bill To Customer:		PO#		Lease Name:		Moody		Well #:		41-32 D	
Address:		3801 Carson Ave		County:		CO		Invoice Ref. #:			
City:		Evans		Job Type:				OCSG #:			
State:		CO		Casing Sz & Wt:		4-1/2 11.6#					
Zip:		80620		Service Man:		MERCED TERRAZAS					
Ordered By:		Eduardo Chavez									
NO.	RENTALS/SALES	QTY	PRICE	DSC	TOTAL						
1	Rental of 4-1/2 casing scraper	1	605.00	35%	\$393.25						
2	Rental of 2-3/8 reg box x 2-3/8 8rd box	1	125.00	35%	81.25						
3	Rental of 3-7/8 blade bit	1	125.00	35%	81.25						
4	Sale of pump off bit sub	1	800.00		800.00						
5	Sale of 3-7/8 cone bit	1	1,245.00	36%	796.80						
6	Sale of float	1	160.00		160.00						
7	Rental of TIW valve	1	275.00	35%	178.75						
8	Rental of 7-1/16 5K BOP adopter flange	1	425.00	35%	276.25						
9					0.00						
10					0.00						
11					0.00						
12					0.00						
13					0.00						
14					0.00						
Subtotal Taxable Charges						\$2,767.55					
SERVICE MANS TIME											
						\$0.00					
						0.00					
						0.00					
						0.00					
Subtotal Non-Taxable Charges						\$0.00					
MILEAGE											
Mileage					35	\$2.95	\$103.25				
						0.00					
						0.00					
						0.00					
Subtotal Non-Taxable Charges						\$103.25					
Terms: Net 30 Days							Total Service & Material:				
							\$2,870.80				
							Tax:				
							\$80.26				
							TOTAL CHARGES:				
							\$2,951.06				

Authorized Agent: Eduardo Chavez

Date: _____

WALTER CORPORATION

Walter Corporation, LLC 33250 CR 53 Gill, CO 80624

Office: 970.301.2028

Fax: 970.284.6682

Field Ticket #

22562

Date

8/7/2018

Nº 22562

Bill To Customer:		PO#	Lease Name:		Moody	Well #	41-32 D
Address:		3801 Carson Ave	County:	Weld	St:	CO	Invoice #
City:		Evans	Job Type:	OCSG #:			
State:	CO	Zip:	Legal Description:	Casing Sz & Wt:			
Ordered By:	Eduardo Chavez		Service Man	Service Man			

NO.	RENTALS/SALES	QTY	PRICE	DSC	TOTAL
1	Sale of 4-1/2 D & H CIBP	1	700.00		\$700.00
2					0.00
3					0.00
4					0.00
5					0.00
6					0.00
7					0.00
8					0.00
9					0.00
10					0.00
11					0.00
12					0.00
13					0.00
14					0.00
Subtotal Taxable Charges					\$700.00
SERVICE MANS TIME					
					\$0.00
					0.00
					0.00
					0.00
Subtotal Non-Taxable Charges					\$0.00
MILEAGE					
					\$0.00
					0.00
					0.00
					0.00
Subtotal Non-Taxable Charges					\$0.00
Terms: Net 30 Days					
Total Service & Material:					\$700.00
Tax:					\$20.30
TOTAL CHARGES:					\$720.30

Authorized Agent: Eduardo Chavez

Date: _____

Pick Production Equip.
Sterling, CO 80751

Aaron Pickering
970-520-0279

PDC Energy
Moody 41-32D

Eduardo Chavez
Well Head Test

Interval:

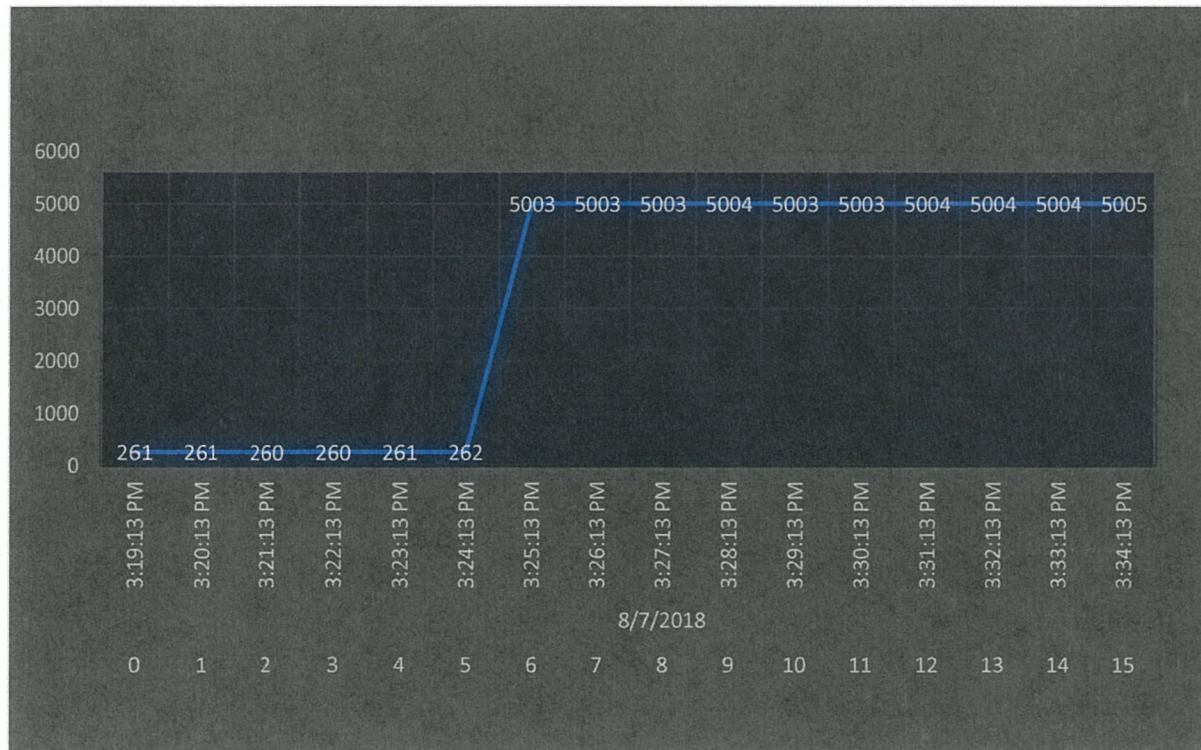
60 Seconds

DataPoint LogDate

LogTime

1-P PSI

0		3:19:13 PM	261
1		3:20:13 PM	261
2		3:21:13 PM	260
3		3:22:13 PM	260
4		3:23:13 PM	261
5		3:24:13 PM	262
6		3:25:13 PM	5003
7		3:26:13 PM	5003
8	8/7/2018	3:27:13 PM	5003
9		3:28:13 PM	5004
10		3:29:13 PM	5003
11		3:30:13 PM	5003
12		3:31:13 PM	5004
13		3:32:13 PM	5004
14		3:33:13 PM	5004
15		3:34:13 PM	5005



P.O. BOX 341
STERLING, CO 80751
970-522-8387

PICK TESTERS
HYDRO

TICKET
NO. DH - 10709

B I T L O L	Customer Name <u>PDC</u>			On Location: <u>1:00 pm</u>
	Address			On Stand By:
	City	State	Zip	Off Stand By:
	Customer Order No. <u>BEARIE</u>			Off Location: <u>4:00 pm</u>

Purpose of Work TUBING Pressure Used 6000 PSI
Date 8/6/18 Lease MOODY Well No 41-32D
Field County WELD State CO Location
Casing Size & Wt. Tubing Size & Wt. 2 3/8
Contractor & # ELW # 354 Round Trip Miles From

Directions:

QUANTITY	DESCRIPTION	PRICE	AMOUNT
222	Joints	2.45	568.40
1	Mileage <u>TRUCK</u>	FLR	175.00
6	Test Cups	30.00	180.00
4	Hours	FLR	340.00
	Methanol		
	Casing Test		
1	Computer Pressure Log <u>NET.COM</u>	FLR	25.00
		Sub Total	1,228.40
		Sales Tax	7.02
		Labor	NA

REPRESENTATIVE BY: <u>Guy Dorn</u>	TOTAL CHARGES	Subject to Correction in accordance with Latest Published Price Schedules	1,275.42
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2	Holes
2	Rod Cuts
2	Bad Pins
2	Collar Leaks
2	Split Joints

Remarks:

I certify that the above material and/or services has been delivered and/or used; that the basis for charges are correctly stated; and that I am authorized to sign this agreement as agent of customer.

Company By Edmund Date

1 of 1

TO CASED HOLE SOLUTIONS, INC.
You are hereby requested to perform or attempt to perform the following service(s) or furnish the following equipment:

SERVICE(S) AND/OR EQUIPMENT REQUESTED

THE ESTIMATED CHARGES AND DATA SHOWN ARE SUBJECT TO CORRECTION BY CASEHOLE SOLUTIONS, INC. ACCOUNTING

WIRELINE DEPTH	MAX. WELLHEAD PRESSURE	PSI	BOTTOM HOLE PRESSURE:	PSI

[illegible]

STANDARD PRICING		2	0	0

Bills for this job made in	TOTAL OF BOOK PRICE			
	2805.00			
YES.	ECL. USE	% FZS/A/C/D	PHASE	SFT
	10K		0	6

August were 2

[illegible][illegible]

	ESTIMATED TOTAL CHARGE PAGE 1	\$2,805.00	NO
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THE SERVICE(S) AND/OR EQUIPMENT COVERED BY THIS SERVICE ORDER HAVE BEEN PERFORMED OR RECEIVED AS SET FORTH ABOVE	
SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE	LOGS
	CUST. INITIALS
SIGNATURE OF CABLED HOLE SO LITTONS ENGINEER	

[illegible][illegible][illegible]

	Casing 1		LOG MEAS. FROM	WHICH IS	ABOVE PERM DATUM	D.F.	G.L.

Casing 2		Fluid Type	Fluid Weight	Fluid Level	REMARKS
			8.845		

Tubing	Water	8.345 lbs/gal	feet	District doing job: Fort Lupton, CO
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[illegible]

Drill Pipe	Bottom Hole Temperature	Degrees F	Type of Job:
CASEHOLE ENGINEER WORK WITNESSED BY			

CHARTERED ENGINEERS NAMES	WORK WITHING OF NAME	Class: Vert. Domestic

Meisner, Jacob	Crew 1	Chavez	District job is in: Fort Lupton, CO
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[illegible][illegible][illegible][illegible][illegible]