API Well Number: 43047530120000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
Federal 432-30-9-19

2. TYPE OF WORK
DRILL NEW WELL ■ REENTER P&A WELL ☐ DEEPEN WELL ☐

3. FIELD OR WILDCAT
PARIETTE BENCH

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME

6. NAME OF OPERATOR
GASCO PRODUCTION COMPANY

7. OPERATOR PHONE

8. ADDRESS OF OPERATOR
8 Inverness Dr. East, Suite 100, Englewood, CO, 80112

9. OPERATOR E-MAIL

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
utu-37246

11. MINERAL OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

12. SURFACE OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ☐ (Submit Commingling Application) NO ■

19. SLANT
VERTICAL ☐ DIRECTIONAL ■ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2000 FSL 659 FEL	NESE	30	9.0 S	19.0 E	S
Top of Uppermost Producing Zone	2067 FSL 666 FEL	NESE	30	9.0 S	19.0 E	S
At Total Depth	2067 FSL 666 FEL	NESE	30	9.0 S	19.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
666

23. NUMBER OF ACRES IN DRILLING UNIT
600

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
437

26. PROPOSED DEPTH
MD: 12760 TVD: 12760

27. ELEVATION - GROUND LEVEL
4810

28. BOND NUMBER
ut1233

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
41-3530

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	17.5	13.375	0 - 100	48.0	H-40 ST&C	8.3	50/50 Poz	110	1.31	14.3
Surf	12.25	8.625	0 - 2500	28.0	J-55 ST&C	9.0	Premium Lite High Strength	415	3.21	11.0
							Class G	145	1.17	15.8
Prod	7.875	4.5	0 - 1100	11.6	HCP-110 LT&C	11.6	Premium Lite High Strength	530	2.26	12.0
			1100 - 12200	11.6	HCP-110 LT&C	11.6	50/50 Poz	1530	1.31	14.3
			12200 - 12760	13.5	HCP-110 LT&C	11.6	None			

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ✔ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ✔ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ✔ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ✔ TOPOGRAPHICAL MAP

NAME Roger Knight **TITLE** EHS Supervisor **PHONE** 303 996-1803

SIGNATURE **DATE** 08/02/2012 **EMAIL** rknight@gascoenergy.com

API NUMBER ASSIGNED
43047530120000

APPROVAL
Permit Manager

CONFIDENTIAL

RECEIVED: August 21, 2012

Gasco Production Company
Federal 432-30-9-19
NESE, Section 30, Township 9 South, Range 19 East
Uintah County, Utah
Lease No. UTU- 37246

ONSHORE OIL & GAS ORDER NO. 1

Drilling Program

1. Estimated Tops of Important Geological Markers

Formation	Depth	Subsea
Green River	surface	surface
Wasatch	5310'	-420'
Dark Canyon	9110'	-4220'
Lower Mesaverde	10690'	-5800'
Castlegate	11570'	-6680'
Spring Canyon	12500'	-7610'
TD	12760'	

2. Estimated Depth of Anticipated Water, Oil, Gas or Mineral Formations

Substance	Formation	Depth
Gas	Dark Canyon	9010' – 10689'
Gas	Lower Mesaverde	10690' - 11499'
Gas	Spring Canyon	12500' – 12760'

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All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment

All well control equipment will be in accordance to Onshore Order No. 2 for 10M Systems and are as follows:

10,000# BOP with 4 ½" Pipe Rams
10,000# BOP with Blind Rams
5,000# Annular

Ram type preventers and associated equipment shall be tested to the approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline on pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Pressure Control Equipment Continued

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

a. when initially installed;
b. whenever any seal subject to test pressure is broken
c. following related repairs; and
d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more that once a day.

A BPOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

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BOP systems shall be consistent with API RP 53 Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling cement plugs.

The District Office will be notified, with sufficient lead time, in order to have a BLM representative on location during testing.

a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not yet been chosen to drill this well, most of the equipment for this depth will utilize 10M working BOP.

b. A choke line and kill line are to be properly installed. The kill line is not to be used as a fill-up line.

c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.

d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

Special Drilling Operations to be followed by Gasco Production Company during operations air/gas drilling of Surface Hole

The following equipment will be operational and implemented during any air/gas drilling operations for the surface hole as per Onshore Order 2 III. E. 1.:

Properly lubricated and maintained rotating head
Spark Arresters on engines or water cooled exhaust
Blooie line discharge 100 feet from well bore and securely anchored
Straight run on blooie line unless other wised approved
Deduster equipment
All cuttings and circulating medium shall be directed into a reserve or blooie pit
Float valve above bit
Automatic igniter or continuous pilot light on the blooie line
Compressors located in opposite direction from the blooie line a minimum of 100 feet from the well bore

Variances Requested:

Variance for Requirement BOPE
Properly lubricated and maintained rotating head and air bowl diverter system.

Variance for Requirement Mud Material
Mud circulating equipment, water and mud materials sufficient to maintain the capacity of the hole and circulating tanks or pits. Skid pump shall be available to pump water from an auxiliary water source such as reserve pit or water storage tank for well control purposes.

Variance for Requirement Blooie Line Length
Requirement for blooie line discharge of 100 feet from well. Blooie line discharge distance between well and reserve pit is 60 feet.

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4. Proposed Casing and Cementing Program

a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones abnormally pressured zones and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics. All indications of usable water shall be reported.

b. Casing Program

	Depth	Hole Size	O.D.	Grade	Type
Conductor	100'	17 1/2"	13 3/8"	H-40 #48	STC
Surface	2500'	12 ¼"	8 5/8"	J-55 #28	STC
Production	1100 '	7 7/8"	4 ½"	HCP-110#11.6	BTC
	12,200'	7 7/8"	4 ½"	HCP-110#11.6	LTC
	12,760'	7 7/8"	4 ½"	HCP-110#13.5	LTC

c. Casing design subject to revision based on geologic conditions encountered.

d. Cement Program

	Est. Top of Cement	Sacks/Cement Type	Yield	Supply Wt.	
Conductor	surface	110/ POZ /Ready Mix	1.31	14.3	
Surface	surface	415/ Premium Lite II	3.21	11.0	Lead
		145 Class G	1.17	15.8	Tail
Production	surface	530/ Premium Lite II	2.26	12.0	Lead
		1530/ 50/50 POZ	1.31	14.3	Tail

e. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

f. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.

g. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, form 3160-5 "Sundry Notices and Reports on Wells", must Include complete information concerning:

   a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.

   b. Temperature or bond log must be submitted for each well where the casing cement was not circulated to the surface.

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h. Auxiliary equipment to be used is as follows:

1. Kelly cock

2. A bit float

3. A sub with full opening valve.

5. Drilling Fluids Program:

Interval	Type	Wt. (ppg)	Viscosity	pH	Water Loss
0-100'	Air Mist	8.33	NA	NA	NA
100'-2500'	Air Mist	9.0	35	NA	NA
2500'-TD	Water Based Mud	8.3 – 11.6		10-10.5	NA

a. Sufficient quantities of mud material will be maintained on site or be readily available for the purpose of assuring well control. SPR will be recorded on a daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

b. No chromate additives will be used in the mud system on Federal lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

c. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well.

d. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

e. Water will come from: Water Right No. 41-3530.

f. Water will be hauled by commercial transport over the access roads shown on Attached Maps "A" and "B".

g. No water well will be drilled on this lease

6. Evaluation Program

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stern tests are anticipated, if DST's are run, the following requirements will be adhered to:

Initial opening of the drill stern test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer (AO). However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DST's may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided means for reverse circulation.

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Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that ate required to "run" during the test shall have spark arresters or water cooled exhausts.

b. The logging program will consist of Schlumberger Platform Express (or equivalent) to be run from base of surface casing to TD.

c. No cores are anticipated.

d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted no latter than 30 days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well tested data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4.
Samples (cutting, fluids, and/or gases will be submitted when requested by the AO.

e. The anticipated completion program is as follows: Perform multistage fracs and complete all productive zones present in the wellbore. Produce all zones commingled.

f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

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7. Abnormal Temperatures and Pressures

a. The expected bottom hole pressure is 7550psig

The maximum bottom hole temperature anticipated is 210 degrees Fahrenheit.

b. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 10000# BOP and rotating head.

8. Anticipated Starting Dates and Notifications of Operations

a. Drilling is anticipated to commence immediately upon approval

b. It is anticipated that the drilling of this well will take approximately 20 days.

c. The Vernal BLM and UDOGM shall be notified of the anticipated date of location construction and anticipated spud date.

d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior to approval from the AO
will be obtained and notification given before resuming operations.

e. The spud date will be reported orally to the AO within 48 hours of spudding. If the spudding occurs on a weekend or holiday, the report will be submitted via voice mail and/or e-mail to the AO.

f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM and UDOGM.

g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual or undesirable events shall be reported promptly to the AO in accordance with the requirements of NTL-3A or its revision.

h. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, or prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

i. Should the well be successfully completed for production, the AO will be notified when the well is placed on producing status. Written notification, e-mail or otherwise, will be sent no latter than 5 days following the date on which the well is placed on production.

j. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

k. Pursuant to NTL-4A lessees or operators are authorized to vent/flare gas during initial well evaluation test, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day authorized test period.

l. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the BLM, Vernal Field Office and UDOGM within 60 days of installation or first production whichever occurs first. All site security regulations as specified in Onshore Order No.3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).

m. A first production conference will be scheduled within 15 days after receipt of the first production notice.

n. No well abandonment operations will commence without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed within 30 days following the completion of the well for abandonment. The report will indicate where plugs were placed and the current status of the surface restoration. Final abandonment will not be approved until the surface reclamation work has been completed to the satisfaction of the AO.

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o. Pursuant to Onshore Oil and Gas Order No.1, lessees and operators have the responsibility of operating in a manner which conforms with the applicable Federal laws and regulations and with the State and local laws and regulations to the extent that such laws are applicable to operations on Federal lands.

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

Phone: (435)781-4400
Fax: (435)781-4410

After Hours:
Michael Lee Petroleum Engineer (435)828-4470

Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

Phone 801-538-5340
Fax 801-539-3940

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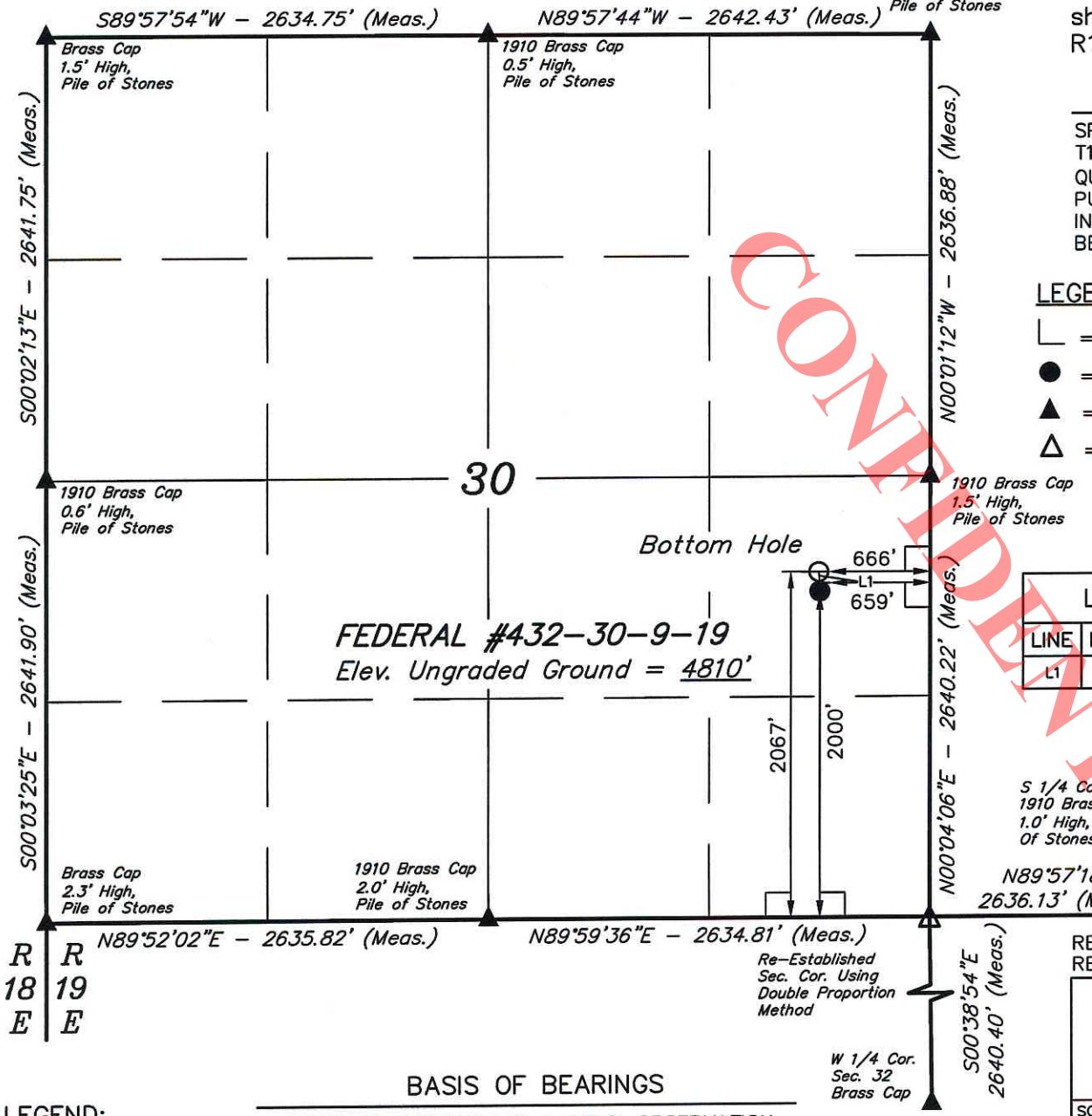
API Well Number: 43047530120000

T9S, R19E, S.L.B.&M.



GASCO PRODUCTION COMPANY

Well location, FEDERAL #432-30-9-19, located as shown in the NE 1/4 SE 1/4 of Section 30, T9S, R19E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 14, T10S, R18E, S.L.B.&M., TAKEN FROM THE MOON BOTTOM QUADRANGLE, UTAH, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5129 FEET.

LEGEND:

└ = 90° SYMBOL
● = PROPOSED WELL HEAD.
▲ = SECTION CORNERS LOCATED.
△ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

N

1000' 500' 0' 1000'

SCALE

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N05°54'54"W	67.25'

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REGISTERED LAND SURVEYOR NO. 161319 ROBERT L. KAY STATE OF UTAH 04-30-12

REVISED: 04-30-12
REVISED: 03-15-12

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°00'01.13" (40.000314)	LATITUDE = 40°00'00.47" (40.000131)
LONGITUDE = 109°48'58.01" (109.816114)	LONGITUDE = 109°48'57.92" (109.816089)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°00'01.26" (40.000349)	LATITUDE = 40°00'00.60" (40.000167)
LONGITUDE = 109°48'55.50" (109.815416)	LONGITUDE = 109°48'55.41" (109.815392)

LEGEND:

└ = 90° SYMBOL
● = PROPOSED WELL HEAD.
▲ = SECTION CORNERS LOCATED

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 02-24-12	DATE DRAWN: 02-27-12
PARTY J.F. B.S. T.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE GASCO PRODUCTION COMPANY	

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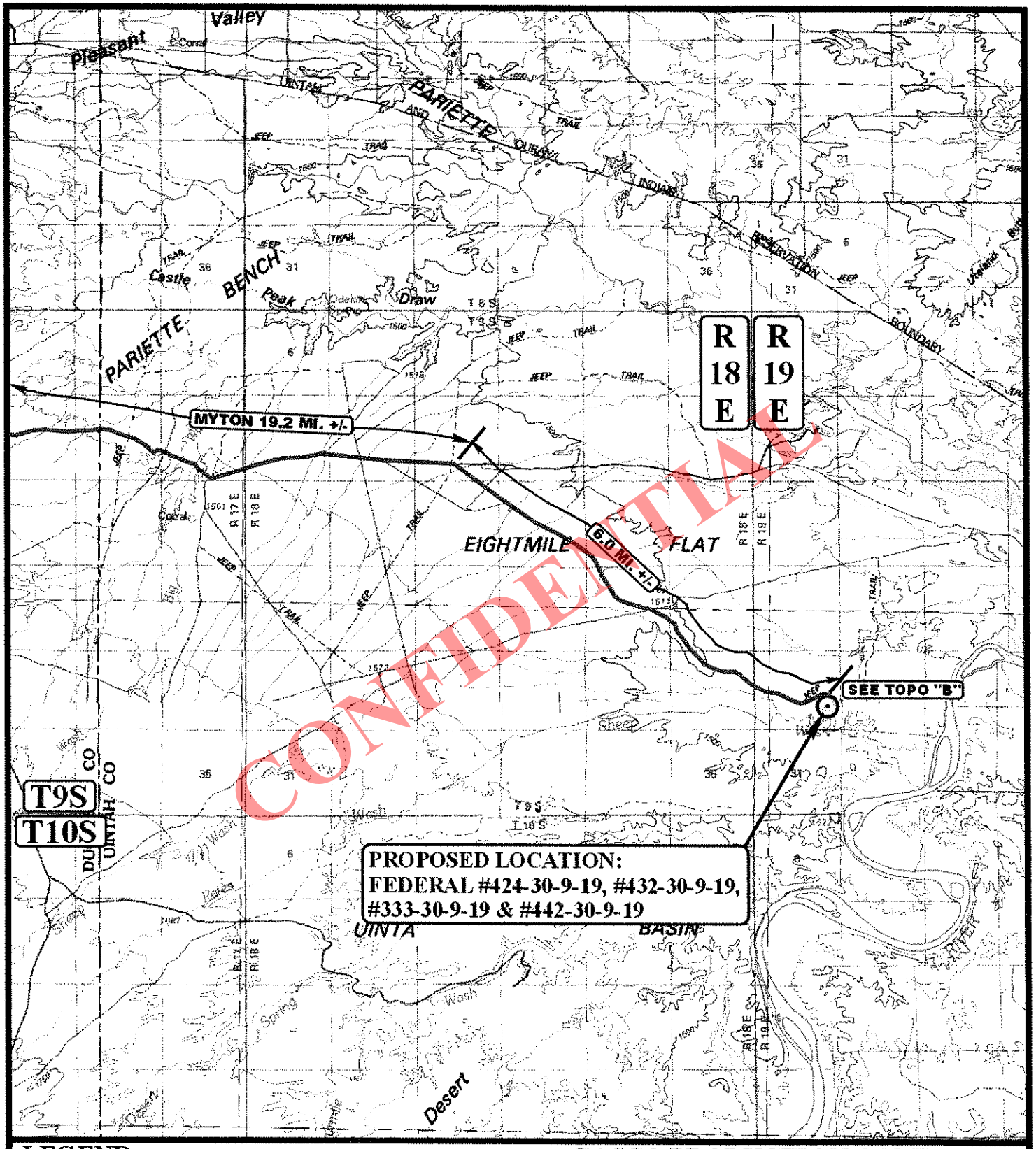
API Well Number: 43047530120000



LEGEND:

⊙ PROPOSED LOCATION

N

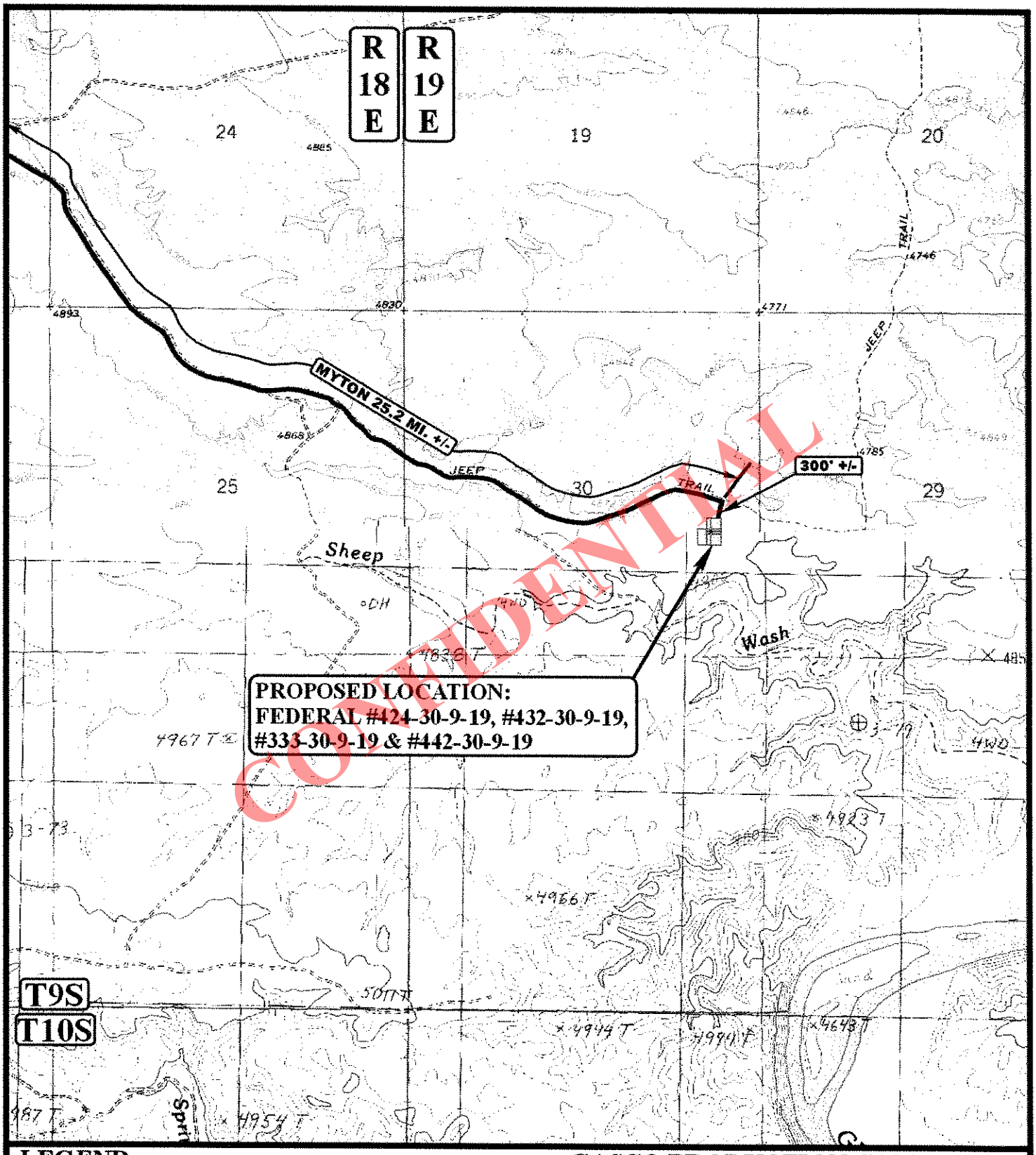
GASCO PRODUCTION COMPANY

FEDERAL #424-30-9-19, #432-30-9-19,
#333-30-9-19 & #442-30-9-19
SECTION 30, T9S, R19E, S.L.B.&M.
NE 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	02 MONTH	28 DAY	12 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: J.L.H.	REVISED: 05-02-12		

API Well Number: 43047530120000



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

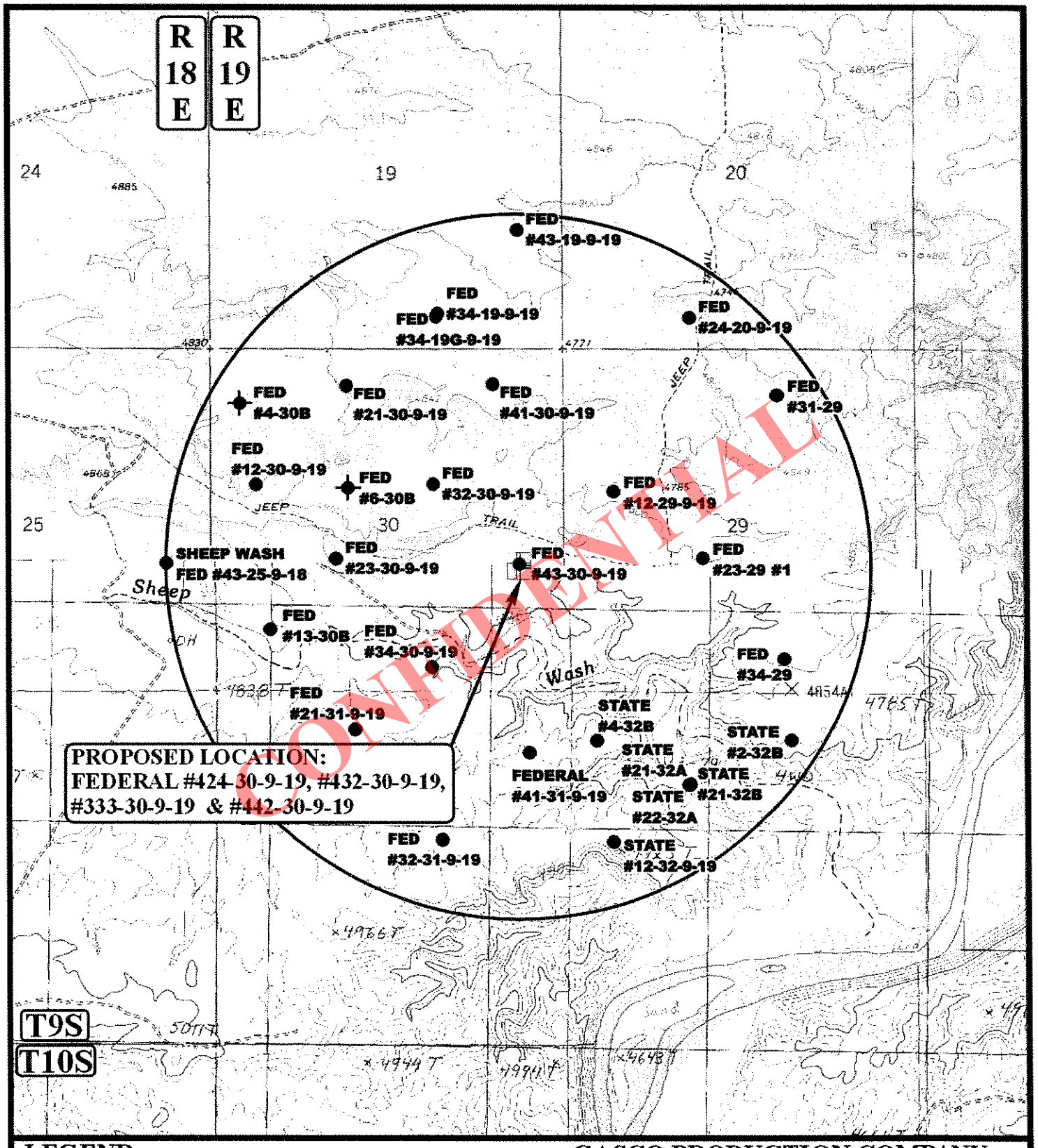
GASCO PRODUCTION COMPANY

FEDERAL #424-30-9-19, #432-30-9-19,
#333-30-9-19 & #442-30-9-19
SECTION 30, T9S, R19E, S.L.B.&M.
NE 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD MAP	02 MONTH	28 DAY	12 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: J.L.H.	REVISED: 05-02-12		

API Well Number: 43047530120000



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

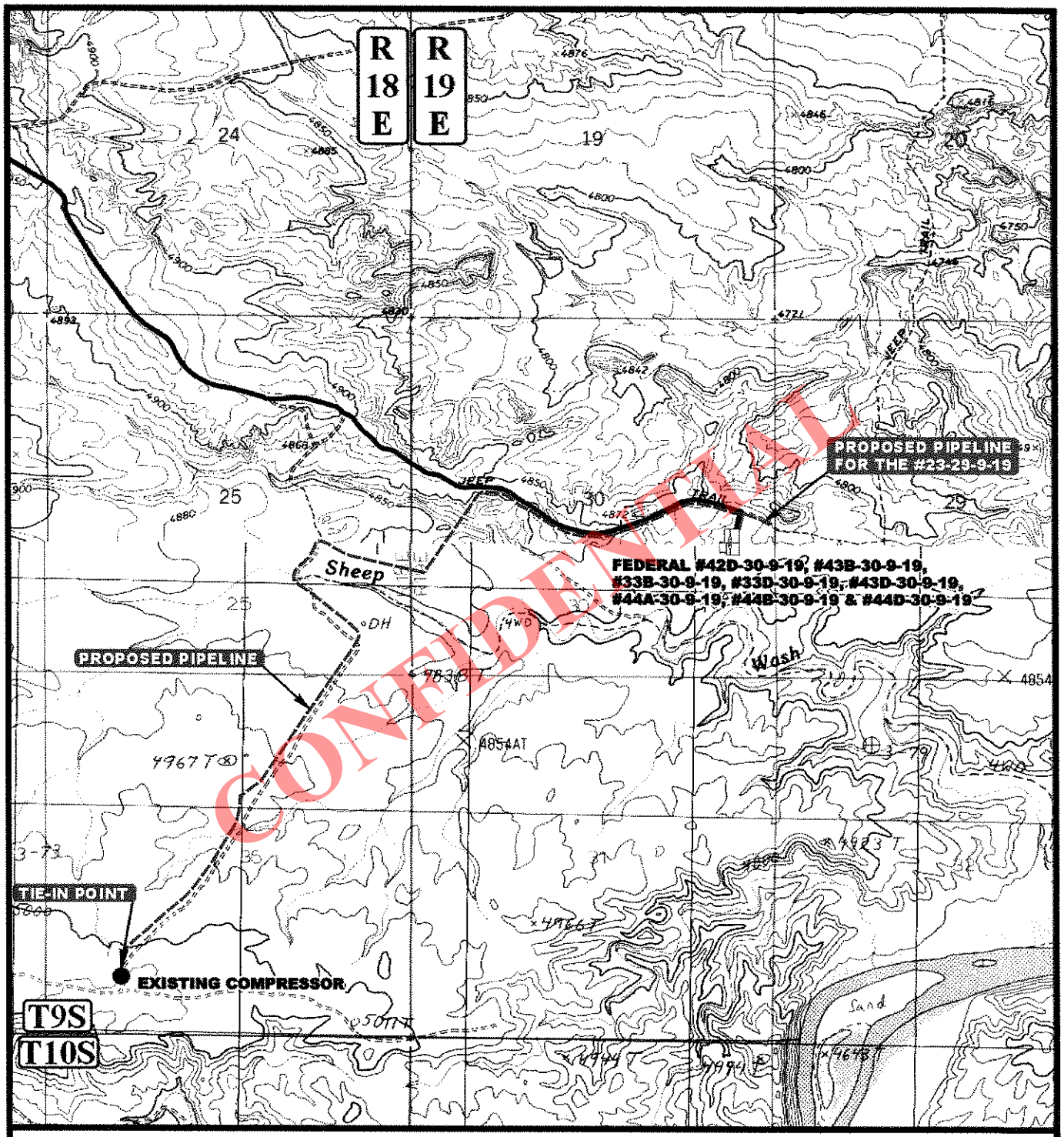
GASCO PRODUCTION COMPANY

FEDERAL #424-30-9-19, #432-30-9-19,
#333-30-9-19 & #442-30-9-19
SECTION 30, T9S, R19E, S.L.B.&M.
NE 1/4 SE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	02 MONTH	28 DAY	12 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: J.L.H.	REVISED: 05-02-12		

API Well Number: 43047530120000



APPROXIMATE TOTAL PIPELINE DISTANCE = 17,085' +/-

LEGEND:

- EXISTING ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

N

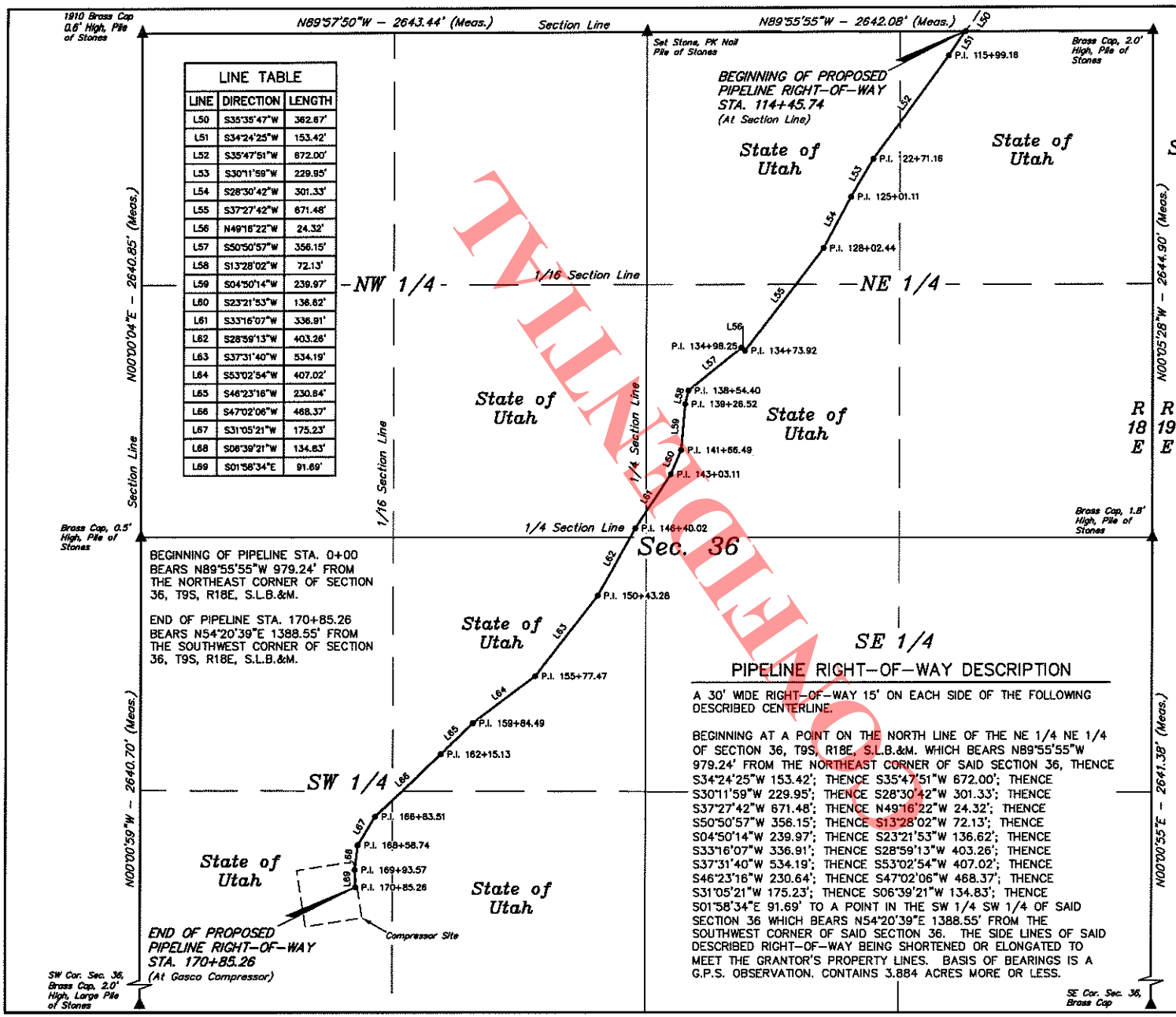
GASCO PRODUCTION COMPANY

SECTION 30, T9S, R19E & SECTION 36, T9S, R18E
TO RIVER BEND COMPRESSOR STATION
SECTIONS 25 & 36, T9S, R18E, S.L.B.&M.
SECTION 30, T9S, R19E, S.L.B.&M.

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	07 MONTH	03 DAY	12 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REVISED: 07-11-12		

API Well Number: 43047530120000



LINE TABLE		
LINE	DIRECTION	LENGTH
L50	S35°35'47"W	362.67'
L51	S34°24'25"W	153.42'
L52	S35°47'51"W	672.00'
L53	S30°11'59"W	229.95'
L54	S28°30'42"W	301.33'
L55	S37°27'42"W	671.48'
L56	N49°16'22"W	24.32'
L57	S50°50'57"W	356.15'
L58	S13°28'02"W	72.13'
L59	S04°50'14"W	239.97'
L60	S23°21'53"W	136.62'
L61	S33°16'07"W	336.91'
L62	S28°59'13"W	403.26'
L63	S37°31'40"W	534.19'
L64	S53°02'54"W	407.02'
L65	S46°23'16"W	230.64'
L66	S47°02'06"W	468.37'
L67	S31°05'21"W	175.23'
L68	S06°39'21"W	134.83'
L69	S01°58'34"E	91.69'

BEGINNING OF PIPELINE STA. 0+00 BEARS N89°55'55"W 979.24' FROM THE NORTHEAST CORNER OF SECTION 36, T9S, R18E, S.L.B.&M.

END OF PIPELINE STA. 170+85.26 BEARS N54°20'39"E 1388.55' FROM THE SOUTHWEST CORNER OF SECTION 36, T9S, R18E, S.L.B.&M.

PIPELINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 NE 1/4 OF SECTION 36, T9S, R18E, S.L.B.&M. WHICH BEARS N89°55'55"W 979.24' FROM THE NORTHEAST CORNER OF SAID SECTION 36, THENCE S34°24'25"W 153.42'; THENCE S35°47'51"W 672.00'; THENCE S30°11'59"W 229.95'; THENCE S28°30'42"W 301.33'; THENCE S37°27'42"W 671.48'; THENCE N49°16'22"W 24.32'; THENCE S50°50'57"W 356.15'; THENCE S13°28'02"W 72.13'; THENCE S04°50'14"W 239.97'; THENCE S23°21'53"W 136.62'; THENCE S33°16'07"W 336.91'; THENCE S28°59'13"W 403.26'; THENCE S37°31'40"W 534.19'; THENCE S53°02'54"W 407.02'; THENCE S46°23'16"W 230.64'; THENCE S47°02'06"W 468.37'; THENCE S31°05'21"W 175.23'; THENCE S06°39'21"W 134.83'; THENCE S01°58'34"E 91.69' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 36 WHICH BEARS N54°20'39"E 1388.55' FROM THE SOUTHWEST CORNER OF SAID SECTION 36. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.884 ACRES MORE OR LESS.

PRELIMINARY

GASCO PRODUCTION COMPANY

PIPELINE RIGHT-OF-WAY ON STATE OF UTAH LANDS

(For SECTION 30, T9S, R19E & SECTION 36, T9S, R18E TO RIVER BEND COMPRESSOR STATION)

LOCATED IN
SECTION 36, T9S, R18E, S.L.B.&M.,
UINTAH COUNTY, UTAH

500' 250' 0' 500'
SCALE

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
STATE OF UTAH	5639.52	3.884	341.79

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 07-11-12

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH – 200 EAST • (435) 789-1017
VERNAL, UTAH – 84078

SCALE 1" = 500'	DATE 07-02-12
PARTY C.A. J.J.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE 52401

Gasco Energy

Uintah County, UT (Nad 27)
Federal 43-30-9-19 Pad
Federal #432-30-9-19

OH

Plan: plan3 17May12 RG

CONFIDENTIAL

Standard Planning Report

17 May, 2012

RECEIVED: August 02, 2012

API Well Number: 43047530120000

GASCO Energy

Project:	Uintah County, UT (Nad 27)
Site:	Federal 43-30-9-19 Pad
Well:	Federal #432-30-9-19
Wellbore:	OH
Design:	plan3 17May12 RG
Latitude:	40.000167
Longitude:	-109.815392
GL:	4810.00
KB:	

Sharewell Energy Services, LP

PROJECT DETAILS: Uintah County, UT (Nad 27)

Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	Utah Central 4302
System Datum:	Mean Sea Level

Plan: plan3 17May12 RG (Federal #432-30-9-19/OH)

Created By: Rolando Garza Date: 14:24, May 17 2012

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.00
377.40	0.77	354.21	377.40	0.52	-0.05	1.00	354.21	0.52	Start 4855.64 hold at 377.40 MD
5233.04	0.77	354.21	5232.60	65.78	-6.67	0.00	0.00	66.12	Start Drop -1.00
5310.45	0.00	0.00	5310.00	66.30	-6.72	1.00	180.00	66.64	Start 7440.00 hold at 5310.45 MD
12750.45	0.00	0.00	12750.00	66.30	-6.72	0.00	0.00	66.64	TD at 12750.45

WELL DETAILS: Federal #432-30-9-19

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	611550.18	2471902.40	40.000167	-109.815392

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
432-30-9-19 T1	5310.00	66.30	-6.72	40.000349	-109.815416	Circle (Radius: 25.00)
432-30-9-19 PBHL2	12750.00	66.30	-6.72	40.000349	-109.815416	Circle (Radius: 100.00)

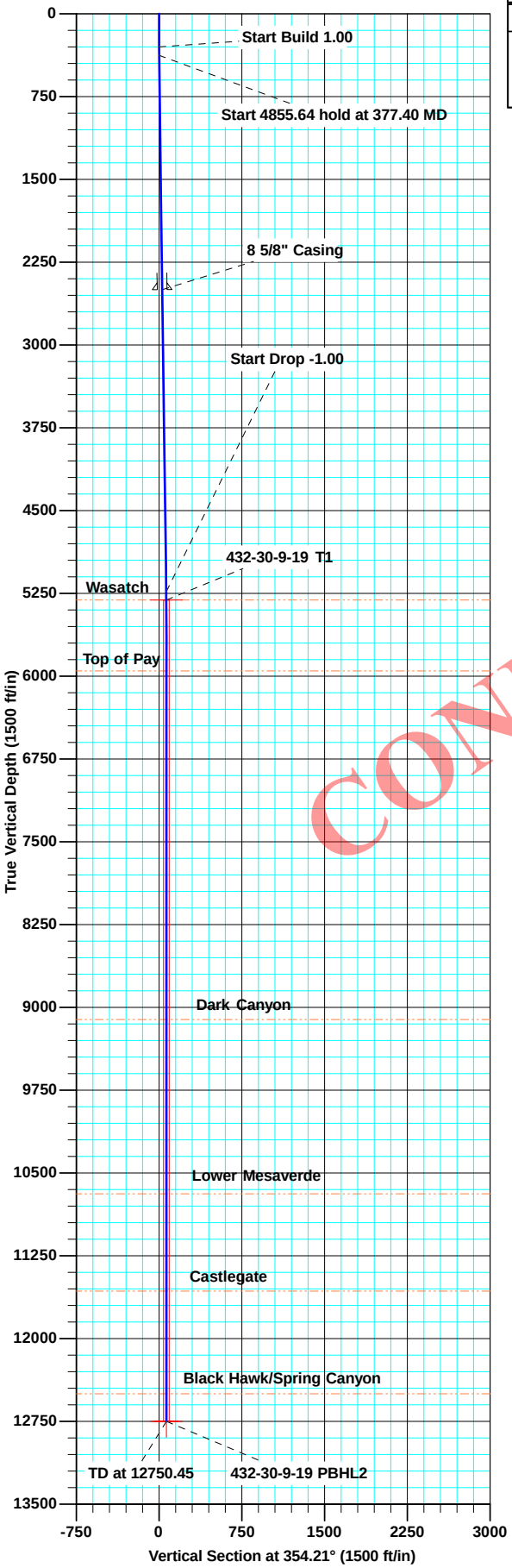
FORMATION TOP DETAILS

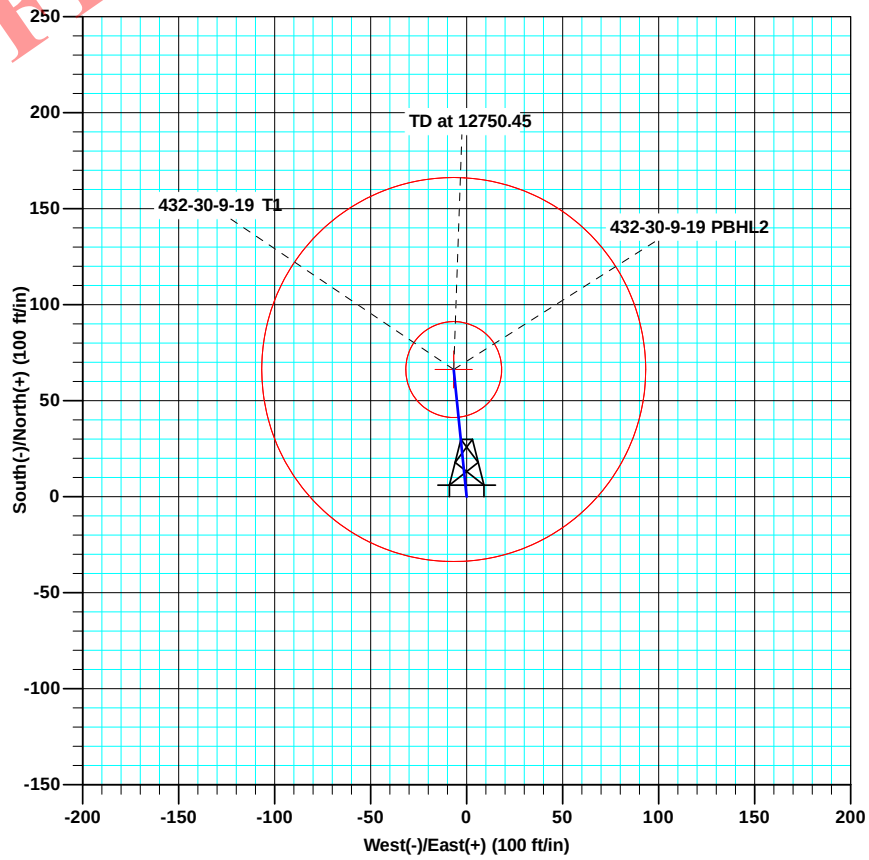
TVDPath	MDPath	Formation
5310.00	5310.45	Wasatch
5952.00	5952.45	Top of Pay
9110.00	9110.45	Dark Canyon
10690.00	10690.45	Lower Mesaverde
11570.00	11570.45	Castlegate
12500.00	12500.45	Black Hawk/Spring Canyon

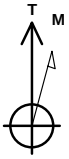
CASING DETAILS

TVD	MD	Name	Csg Ø	Hole Ø
2500.00	2500.20	8 5/8" Casing	8 5/8"	12 1/4"

CONFIDENTIAL







Azimuths to True North
Magnetic North: 11.09°

Magnetic Field
Strength: 52198.8snT
Dip Angle: 65.78°
Date: 05/03/2012
Model: IGRF2010

RECEIVED: August 02, 2012

GASCO Energy

Sharewell
Planning Report

Sharewell

Database:	CompassVM	**Local Co-ordinate Reference:**	Well Federal #432-30-9-19
Company:	Gasco Energy	**TVD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	**MD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Site:	Federal 43-30-9-19 Pad	**North Reference:**	True
Well:	Federal #432-30-9-19	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	plan3 17May12 RG		

Project Uintah County, UT (Nad 27)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Federal 43-30-9-19 Pad

Site Position:		**Northing:**	611,569.13 usft	**Latitude:**	40.000219
From:	Lat/Long	**Easting:**	2,471,902.04 usft	**Longitude:**	-109.815392
Position Uncertainty:	0.00 ft	**Slot Radius:**	1.10 ft	**Grid Convergence:**	1.08 °

Well Federal #432-30-9-19

Well Position	**+N/-S**	-18.95 ft	**Northing:**	611,550.18 usft	**Latitude:**	40.000167
	+E/-W	0.00 ft	**Easting:**	2,471,902.40 usft	**Longitude:**	-109.815392
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	4,810.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	05/03/12	11.09	65.78	52,199

Design plan3 17May12 RG

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	354.21

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
377.40	0.77	354.21	377.40	0.52	-0.05	1.00	1.00	0.00	354.21	
5,233.04	0.77	354.21	5,232.60	65.78	-6.67	0.00	0.00	0.00	0.00	
5,310.45	0.00	0.00	5,310.00	66.30	-6.72	1.00	-1.00	0.00	180.00	432-30-9-19 T1
12,750.45	0.00	0.00	12,750.00	66.30	-6.72	0.00	0.00	0.00	0.00	432-30-9-19 PBHL2

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RECEIVED: August 02, 2012

GASCO Energy

Sharewell
Planning Report

Sharewell

Database:	CompassVM	**Local Co-ordinate Reference:**	Well Federal #432-30-9-19
Company:	Gasco Energy	**TVD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	**MD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Site:	Federal 43-30-9-19 Pad	**North Reference:**	True
Well:	Federal #432-30-9-19	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	plan3 17May12 RG		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.00									
377.40	0.77	354.21	377.40	0.52	-0.05	0.52	1.00	1.00	0.00
Start 4855.64 hold at 377.40 MD									
400.00	0.77	354.21	400.00	0.82	-0.08	0.83	0.00	0.00	0.00
500.00	0.77	354.21	499.99	2.17	-0.22	2.18	0.00	0.00	0.00
600.00	0.77	354.21	599.98	3.51	-0.36	3.53	0.00	0.00	0.00
700.00	0.77	354.21	699.97	4.86	-0.49	4.88	0.00	0.00	0.00
800.00	0.77	354.21	799.96	6.20	-0.63	6.23	0.00	0.00	0.00
900.00	0.77	354.21	899.95	7.54	-0.77	7.58	0.00	0.00	0.00
1,000.00	0.77	354.21	999.94	8.89	-0.90	8.93	0.00	0.00	0.00
1,100.00	0.77	354.21	1,099.93	10.23	-1.04	10.28	0.00	0.00	0.00
1,200.00	0.77	354.21	1,199.92	11.58	-1.17	11.64	0.00	0.00	0.00
1,300.00	0.77	354.21	1,299.91	12.92	-1.31	12.99	0.00	0.00	0.00
1,400.00	0.77	354.21	1,399.90	14.26	-1.45	14.34	0.00	0.00	0.00
1,500.00	0.77	354.21	1,499.90	15.61	-1.58	15.69	0.00	0.00	0.00
1,600.00	0.77	354.21	1,599.89	16.95	-1.72	17.04	0.00	0.00	0.00
1,700.00	0.77	354.21	1,699.88	18.30	-1.86	18.39	0.00	0.00	0.00
1,800.00	0.77	354.21	1,799.87	19.64	-1.99	19.74	0.00	0.00	0.00
1,900.00	0.77	354.21	1,899.86	20.98	-2.13	21.09	0.00	0.00	0.00
2,000.00	0.77	354.21	1,999.85	22.33	-2.26	22.44	0.00	0.00	0.00
2,100.00	0.77	354.21	2,099.84	23.67	-2.40	23.79	0.00	0.00	0.00
2,200.00	0.77	354.21	2,199.83	25.02	-2.54	25.14	0.00	0.00	0.00
2,300.00	0.77	354.21	2,299.82	26.36	-2.67	26.50	0.00	0.00	0.00
2,400.00	0.77	354.21	2,399.81	27.70	-2.81	27.85	0.00	0.00	0.00
2,500.00	0.77	354.21	2,499.80	29.05	-2.95	29.20	0.00	0.00	0.00
2,500.20	0.77	354.21	2,500.00	29.05	-2.95	29.20	0.00	0.00	0.00
8 5/8" Casing									
2,600.00	0.77	354.21	2,599.79	30.39	-3.08	30.55	0.00	0.00	0.00
2,700.00	0.77	354.21	2,699.79	31.74	-3.22	31.90	0.00	0.00	0.00
2,800.00	0.77	354.21	2,799.78	33.08	-3.35	33.25	0.00	0.00	0.00
2,900.00	0.77	354.21	2,899.77	34.42	-3.49	34.60	0.00	0.00	0.00
3,000.00	0.77	354.21	2,999.76	35.77	-3.63	35.95	0.00	0.00	0.00
3,100.00	0.77	354.21	3,099.75	37.11	-3.76	37.30	0.00	0.00	0.00
3,200.00	0.77	354.21	3,199.74	38.46	-3.90	38.65	0.00	0.00	0.00
3,300.00	0.77	354.21	3,299.73	39.80	-4.04	40.00	0.00	0.00	0.00
3,400.00	0.77	354.21	3,399.72	41.14	-4.17	41.36	0.00	0.00	0.00
3,500.00	0.77	354.21	3,499.71	42.49	-4.31	42.71	0.00	0.00	0.00
3,600.00	0.77	354.21	3,599.70	43.83	-4.44	44.06	0.00	0.00	0.00
3,700.00	0.77	354.21	3,699.69	45.18	-4.58	45.41	0.00	0.00	0.00
3,800.00	0.77	354.21	3,799.69	46.52	-4.72	46.76	0.00	0.00	0.00
3,900.00	0.77	354.21	3,899.68	47.86	-4.85	48.11	0.00	0.00	0.00
4,000.00	0.77	354.21	3,999.67	49.21	-4.99	49.46	0.00	0.00	0.00
4,100.00	0.77	354.21	4,099.66	50.55	-5.13	50.81	0.00	0.00	0.00
4,200.00	0.77	354.21	4,199.65	51.90	-5.26	52.16	0.00	0.00	0.00
4,300.00	0.77	354.21	4,299.64	53.24	-5.40	53.51	0.00	0.00	0.00
4,400.00	0.77	354.21	4,399.63	54.58	-5.54	54.86	0.00	0.00	0.00
4,500.00	0.77	354.21	4,499.62	55.93	-5.67	56.22	0.00	0.00	0.00
4,600.00	0.77	354.21	4,599.61	57.27	-5.81	57.57	0.00	0.00	0.00
4,700.00	0.77	354.21	4,699.60	58.62	-5.94	58.92	0.00	0.00	0.00

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RECEIVED: August 02, 2012

GASCO Energy

Sharewell
Planning Report

Sharewell

Database:	CompassVM	**Local Co-ordinate Reference:**	Well Federal #432-30-9-19
Company:	Gasco Energy	**TVD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	**MD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Site:	Federal 43-30-9-19 Pad	**North Reference:**	True
Well:	Federal #432-30-9-19	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	plan3 17May12 RG		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,800.00	0.77	354.21	4,799.59	59.96	-6.08	60.27	0.00	0.00	0.00
4,900.00	0.77	354.21	4,899.59	61.31	-6.22	61.62	0.00	0.00	0.00
5,000.00	0.77	354.21	4,999.58	62.65	-6.35	62.97	0.00	0.00	0.00
5,100.00	0.77	354.21	5,099.57	63.99	-6.49	64.32	0.00	0.00	0.00
5,200.00	0.77	354.21	5,199.56	65.34	-6.63	65.67	0.00	0.00	0.00
5,233.04	0.77	354.21	5,232.60	65.78	-6.67	66.12	0.00	0.00	0.00
Start Drop -1.00									
5,300.00	0.10	354.21	5,299.55	66.29	-6.72	66.63	1.00	-1.00	0.00
5,310.45	0.00	0.00	5,310.00	66.30	-6.72	66.64	1.00	-1.00	0.00
Start 7440.00 hold at 5310.45 MD - Wasatch									
5,400.00	0.00	0.00	5,399.55	66.30	-6.72	66.64	0.00	0.00	0.00
5,500.00	0.00	0.00	5,499.55	66.30	-6.72	66.64	0.00	0.00	0.00
5,600.00	0.00	0.00	5,599.55	66.30	-6.72	66.64	0.00	0.00	0.00
5,700.00	0.00	0.00	5,699.55	66.30	-6.72	66.64	0.00	0.00	0.00
5,800.00	0.00	0.00	5,799.55	66.30	-6.72	66.64	0.00	0.00	0.00
5,900.00	0.00	0.00	5,899.55	66.30	-6.72	66.64	0.00	0.00	0.00
5,952.45	0.00	0.00	5,952.00	66.30	-6.72	66.64	0.00	0.00	0.00
Top of Pay									
6,000.00	0.00	0.00	5,999.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,100.00	0.00	0.00	6,099.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,200.00	0.00	0.00	6,199.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,300.00	0.00	0.00	6,299.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,400.00	0.00	0.00	6,399.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,500.00	0.00	0.00	6,499.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,600.00	0.00	0.00	6,599.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,700.00	0.00	0.00	6,699.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,800.00	0.00	0.00	6,799.55	66.30	-6.72	66.64	0.00	0.00	0.00
6,900.00	0.00	0.00	6,899.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,000.00	0.00	0.00	6,999.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,100.00	0.00	0.00	7,099.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,200.00	0.00	0.00	7,199.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,300.00	0.00	0.00	7,299.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,400.00	0.00	0.00	7,399.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,500.00	0.00	0.00	7,499.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,600.00	0.00	0.00	7,599.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,700.00	0.00	0.00	7,699.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,800.00	0.00	0.00	7,799.55	66.30	-6.72	66.64	0.00	0.00	0.00
7,900.00	0.00	0.00	7,899.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,000.00	0.00	0.00	7,999.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,100.00	0.00	0.00	8,099.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,200.00	0.00	0.00	8,199.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,300.00	0.00	0.00	8,299.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,400.00	0.00	0.00	8,399.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,500.00	0.00	0.00	8,499.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,600.00	0.00	0.00	8,599.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,700.00	0.00	0.00	8,699.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,800.00	0.00	0.00	8,799.55	66.30	-6.72	66.64	0.00	0.00	0.00
8,900.00	0.00	0.00	8,899.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,000.00	0.00	0.00	8,999.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,100.00	0.00	0.00	9,099.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,110.45	0.00	0.00	9,110.00	66.30	-6.72	66.64	0.00	0.00	0.00
Dark Canyon									
9,200.00	0.00	0.00	9,199.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,300.00	0.00	0.00	9,299.55	66.30	-6.72	66.64	0.00	0.00	0.00

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RECEIVED: August 02, 2012

GASCO Energy

Sharewell
Planning Report

Sharewell

Database:	CompassVM	**Local Co-ordinate Reference:**	Well Federal #432-30-9-19
Company:	Gasco Energy	**TVD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	**MD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Site:	Federal 43-30-9-19 Pad	**North Reference:**	True
Well:	Federal #432-30-9-19	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	plan3 17May12 RG		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	0.00	0.00	9,399.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,500.00	0.00	0.00	9,499.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,600.00	0.00	0.00	9,599.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,700.00	0.00	0.00	9,699.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,800.00	0.00	0.00	9,799.55	66.30	-6.72	66.64	0.00	0.00	0.00
9,900.00	0.00	0.00	9,899.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,000.00	0.00	0.00	9,999.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,100.00	0.00	0.00	10,099.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,200.00	0.00	0.00	10,199.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,300.00	0.00	0.00	10,299.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,400.00	0.00	0.00	10,399.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,500.00	0.00	0.00	10,499.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,600.00	0.00	0.00	10,599.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,690.45	0.00	0.00	10,690.00	66.30	-6.72	66.64	0.00	0.00	0.00
Lower Mesaverde									
10,700.00	0.00	0.00	10,699.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,800.00	0.00	0.00	10,799.55	66.30	-6.72	66.64	0.00	0.00	0.00
10,900.00	0.00	0.00	10,899.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,000.00	0.00	0.00	10,999.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,100.00	0.00	0.00	11,099.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,200.00	0.00	0.00	11,199.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,300.00	0.00	0.00	11,299.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,400.00	0.00	0.00	11,399.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,500.00	0.00	0.00	11,499.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,570.45	0.00	0.00	11,570.00	66.30	-6.72	66.64	0.00	0.00	0.00
Castlegate									
11,600.00	0.00	0.00	11,599.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,700.00	0.00	0.00	11,699.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,800.00	0.00	0.00	11,799.55	66.30	-6.72	66.64	0.00	0.00	0.00
11,900.00	0.00	0.00	11,899.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,000.00	0.00	0.00	11,999.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,100.00	0.00	0.00	12,099.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,200.00	0.00	0.00	12,199.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,300.00	0.00	0.00	12,299.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,400.00	0.00	0.00	12,399.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,500.00	0.00	0.00	12,499.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,500.45	0.00	0.00	12,500.00	66.30	-6.72	66.64	0.00	0.00	0.00
Black Hawk/Spring Canyon									
12,600.00	0.00	0.00	12,599.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,700.00	0.00	0.00	12,699.55	66.30	-6.72	66.64	0.00	0.00	0.00
12,750.45	0.00	0.00	12,750.00	66.30	-6.72	66.64	0.00	0.00	0.00
TD at 12750.45									

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RECEIVED: August 02, 2012

GASCO Energy

Sharewell
Planning Report

Sharewell

Database:	CompassVM	**Local Co-ordinate Reference:**	Well Federal #432-30-9-19
Company:	Gasco Energy	**TVD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Project:	Uintah County, UT (Nad 27)	**MD Reference:**	WELL @ 4810.00ft (Original Well Elev)
Site:	Federal 43-30-9-19 Pad	**North Reference:**	True
Well:	Federal #432-30-9-19	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	plan3 17May12 RG		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
432-30-9-19 T1 - plan hits target center - Circle (radius 25.00)	0.00	0.00	5,310.00	66.30	-6.72	611,616.34	2,471,894.43	40.000349	-109.815416
432-30-9-19 PBHL2 - plan hits target center - Circle (radius 100.00)	0.00	0.00	12,750.00	66.30	-6.72	611,616.34	2,471,894.43	40.000349	-109.815416

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)
2,500.20	2,500.00	8 5/8" Casing	8.62	12.25

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,310.45	5,310.00	Wasatch		0.00	
5,952.45	5,952.00	Top of Pay		0.00	
9,110.45	9,110.00	Dark Canyon		0.00	
10,690.45	10,690.00	Lower Mesaverde		0.00	
11,570.45	11,570.00	Castlegate		0.00	
12,500.45	12,500.00	Black Hawk/Spring Canyon		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 1.00
377.40	377.40	0.52	-0.05	Start 4855.64 hold at 377.40 MD
5,233.04	5,232.60	65.78	-6.67	Start Drop -1.00
5,310.45	5,310.00	66.30	-6.72	Start 7440.00 hold at 5310.45 MD
12,750.45	12,750.00	66.30	-6.72	TD at 12750.45

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RECEIVED: August 02, 2012

Gasco Production Company
Federal 432-30-9-19
SE NE, Section 30, Township 9 South, Range 19 East
Uintah County, Utah
Lease No. UTU- 37246

ONSHORE OIL & GAS ORDER NO. 1

Surface Use Plan

Notification Requirements

Location Construction-	48 hours prior to construction of location and access roads
Location completion-	Prior to moving on with drilling rig.
Spud Notice-	At least 24 hours prior to spudding the well.
Casing String and Cementing-	24 hours notice prior to running casing and cementing.
BOP and Related Equipment-	24 hours prior to initiating pressure tests.
First Production Notice-	Within 5 business days after new well begins or production resumes after well has been off production for more than 90 days.

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The onsite inspection for the subject well site will be conducted with at least one of the land management agency specialists, a Gasco representative and additional contractors which may include the following individuals:

Natural Resource Specialist	Bill Civish BLM Representative
Wildlife Biologist	BLM Representative
Jesse Duncan	Gasco Production Company
Scott Duncan	Gasco Production Company
Surveyor	Uintah Engineering

1. Existing Roads

See Drilling Program: Topographic Map "A".

Description of travel from plats.

2. Planned Access Road

See Drilling Program: Topographic Map "B" for location of the proposed access road.

3. Location of Existing Wells

See Drilling Program: Topographic Map "C"

4. Location of Tank Batteries and Production Facilities

a. All permanent surface equipment will be painted Covert Green or another color approved by the land management agency.

b. Storage tanks batteries will be surrounded by containment dike of sufficient capacity to contain at a minimum, the entire contents of the largest tank with in the contained area, unless more stringent requirements are necessary as notified by the AO.

c. A production layout will be submitted via sundry upon proven productivity of the well.

d. All loading lines will be placed inside the berm/dike surrounding the tank battery.

e. A Gas Meter Run will be placed within 500 ft. of the wellhead. Meter runs will be housed. The oil and gas measurement equipment will be installed on the well location.
Measurement equipment will be calibrated in place prior to any deliveries. Tests for accuracy will be conducted monthly for the first three months on new installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the calibration reports will be submitted to the Vernal Field Office.

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f. Any necessary pits will be properly fenced to prevent any wildlife entry.

g. The access road will be maintained in a safe, usable condition conducive to the climate and seasonal conditions in order to accommodate daily operation of the well and prevent erosion.

h. Two pipelines, up to 12" poly, will follow the proposed access for approximately 17,085', as detailed in attached Map "D". The pipeline will be laid on the surface except road crossings where they will be buried to a depth of 3'-5'. The method of coupling will be welded. Associated pipeline components, such as risers, pig launchers/catchers, meters, valves, etc. will be contained within the 30' needed for construction of the pipeline.

5. Location and Type of Water

a. Water will come from: Water Right No. 41-3530.

b. Water will be hauled by commercial transport over the access roads shown on Attached Maps "A" and "B".

c. No water well will be drilled on this lease.

6. Source of Construction Material

a. Any gravel used will be obtained from a commercial source.

b. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2.3.

c. No construction materials will be used from Federal lands.

7. Methods of Handling Waste Disposal

a. The reserve pit will be double lined with at least 16 mil liner.

b. All trash will be contained in an enclosed trash container through the drilling, completion, and facility construction phases and its contents removed and hauled to an approved disposal sight as needed.

c. A chemical porta-toilet will be furnished through the drilling, and completion phases.

d. After first production, produced waste water will be confined to an unlined pit or storage tank for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval.

e. Drill cuttings are to be contained and buried in the reserve pit.

f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.

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8. Ancillary Facilities

There are no airstrips, camps or other facilities planned during the drilling of this well except for those facilities needed for drilling rig personal, service providers and company representatives.

9. Well Site Layout

See Drilling Program: Location Layout Diagram

10. Plans for Restoration of Surface

a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production.

b. Upon completion, any hydrocarbon within the reserve pit will be removed in accordance with 43 CFR 3162.7-1.

c. The reserve pit will be allowed to dry prior to backfilling. The reserve pit liner will be perforated and excess liner removed before backfilling. Alternatively, the pit will be pumped dry, the liner folded into the pit and buried to a minimum of 4' deep.

d. That portion of the location not needed for production facilities or operations, or any disturbed areas upon final plug and abandonment, will be re-contoured to approximate natural contours and seeded with a seed mixture and procedure specified by the AO. Additionally, the topsoil will be seeded with the same mixture and procedure as specified.

11. Surface Ownership

The proposed access road and well pad is on lands managed by the BLM.

12. Other Information

a. An archeological survey was conducted by Montgomery Archaeological Consultants. It is MOAC Report No. 11-297 and dated October 07 2011. The report was submitted under a separate cover.

b. A paleontological survey was conducted by SWCA. It is report number #UT12-14389-53 and dated February 12, 2012. The report was submitted under a separate cover.

c. A Special Status Plant Species Report was conducted by SWCA. The Report is for the Federal 43-30-9-19 Pad dated September 28 and 29 2011. The report was submitted under a separate cover.

Additional reports for the ROW will be submitted under a separate cover.

d. If historic or archeological materials are uncovered during construction, the operator will immediately stop work and contact the AO.

e. COA's from onsite will be implemented/followed.

f. The operator will control noxious weeds along associated well pad, roads, pipelines, and surface equipment. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted and approved prior to the application of pesticides or herbicides.

g. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal lands after the conclusion of drilling operations or at any other time without BLM authorization.

h. All lease and unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notices to Lessees. The operator is fully responsible for the actions of his subcontractors.

i. A complete copy of the APD shall be on location during construction and drilling of this site.

Water Disposal

Immediately upon first production all produced water will be confined to a steel storage tank. Produced Water will be disposed of via truck transport to a State of Utah approved disposal Facility.

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Wildlife Timing Stipulations COA's from onsite will be implemented/followed.

13. Lessee's or Operators Representative

Gasco Production Company
Roger Knight – EHS Supervisor
7979 East Tufts Avenue, Suite 1150
Denver, CO 80237
(303)996-1803 Direct Office

Jesse Duncan
Utah Area Manager
10569 South Parriette Road
PO Box 351
Myton, Utah 84052
(435)-646-3336 office

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Certification

Please be advised that *Gasco Production Company* is considered to be the operator of the *Well Federal 324-30-9-19, SENE Section 30, T9S, R19E, Lease No. UTU-37246, Uintah County, Utah:* and is responsible under the term and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #1233.

I herby certify that the proposed drill site and access road have been inspected and I am familiar with the conditions that currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Gasco Production Company its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provisions of 18 U.S.C. 1000 for the filing of a false statement.

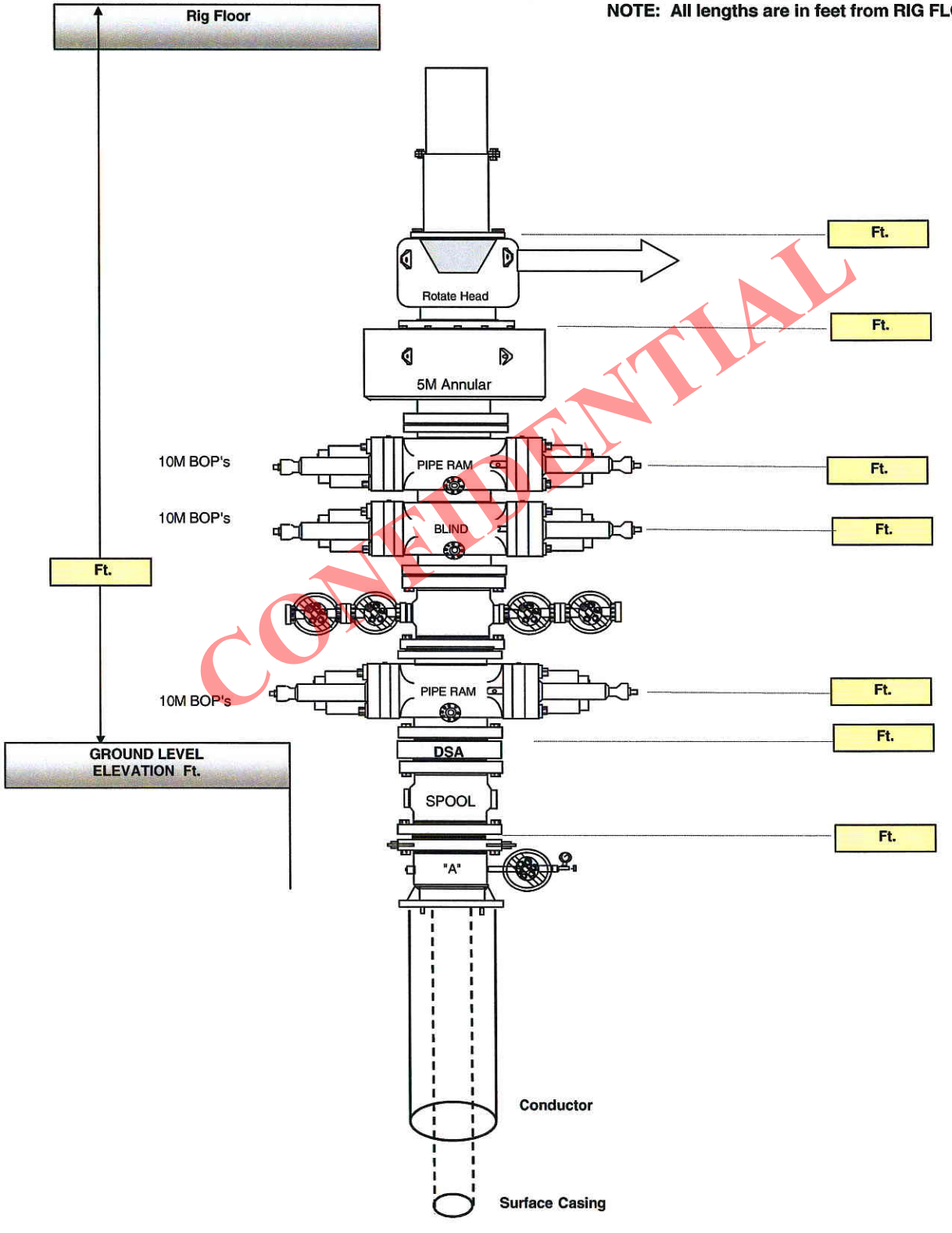
Roger Knight
Gasco Production Company

8-2-12 Date

API Well Number: 43047530120000

Gasco Energy Utah Region	DRILLING PHASE BOP Stack Diagram	River Bend Area Utah DATE: Rig:

NOTE: All lengths are in feet from RIG FLOOR.



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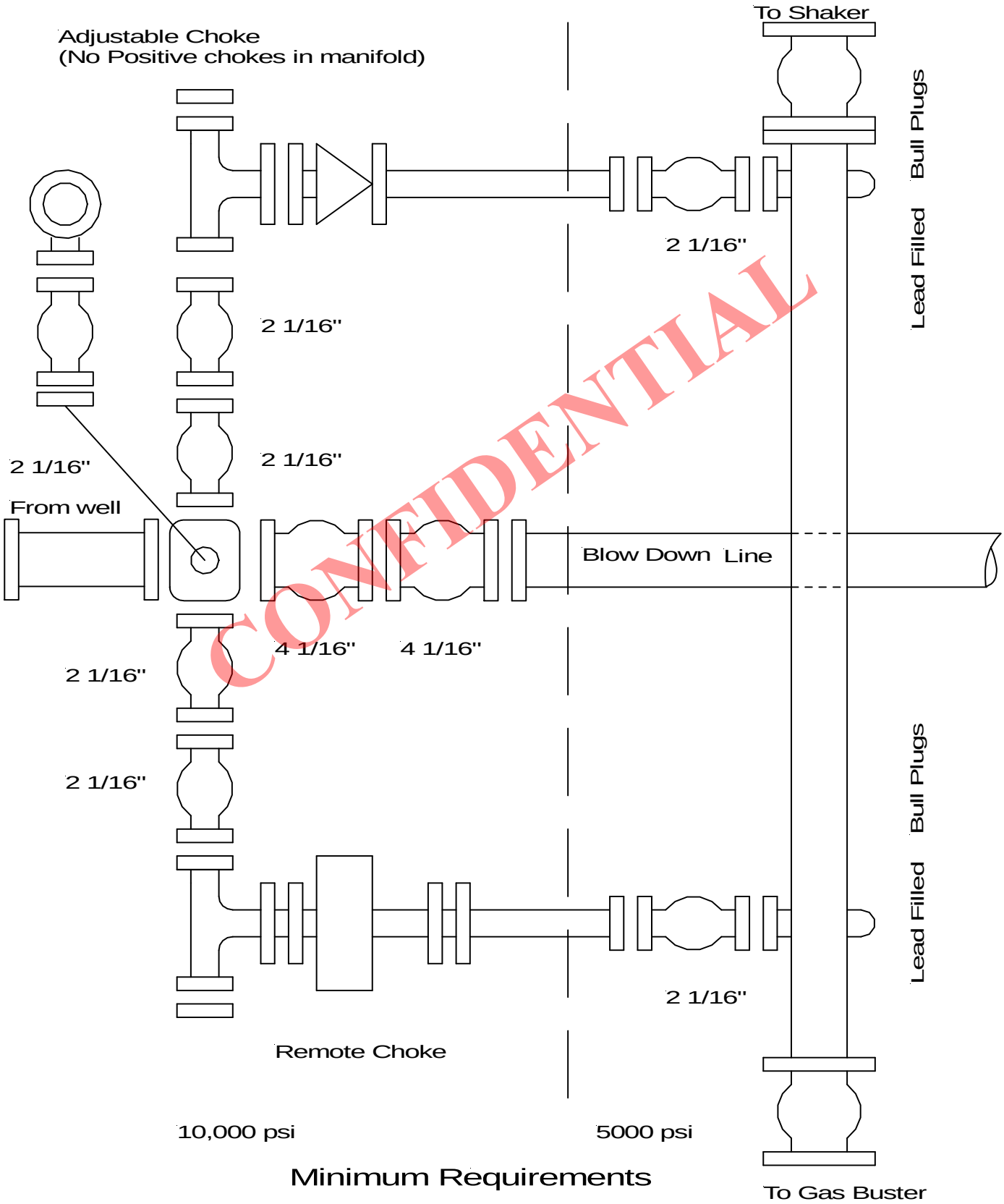
10,000 psi Manifold



Minimum Requirements

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RECEIVED: August 02, 2012

August 31, 2012

Gasco Production Company
Federal 432-30-9-19
2067' FSL & 666' FEL
NE SE of Section 30-T9S-R19E
Uintah County, UT

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the well site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. The $6,500 APD processing fee is being sent to the BLM Vernal Field office in conjunction with the electronic submittal of the APD package. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

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Signature

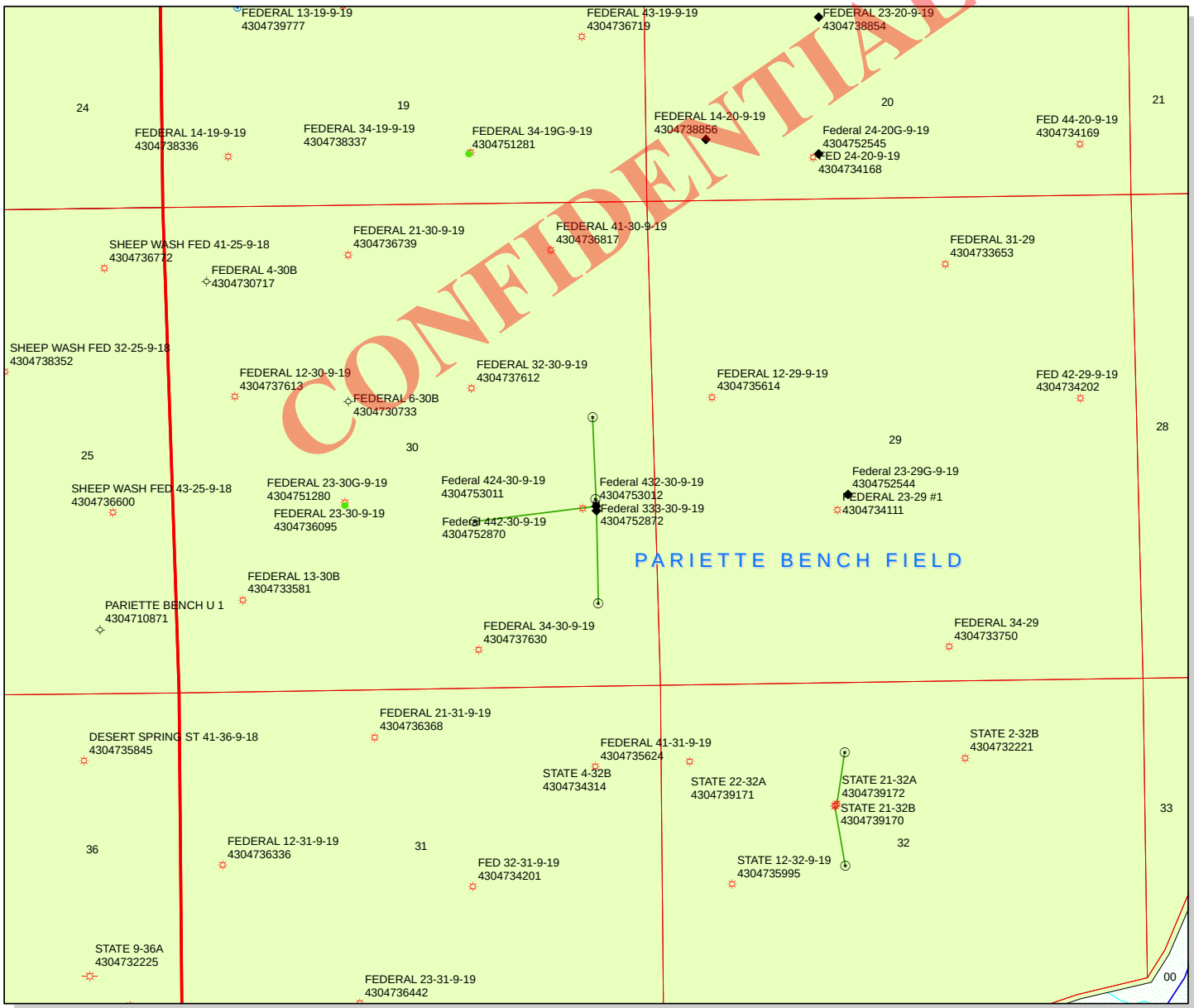
Executive Vice President & COO
Title

7979 East Tufts Avenue, Suite 1150 Denver, CO 80237
Address

303-483-0044
Phone

mdecker@gascoenergy.com
E-mail

API Well Number: 43047530120000



API Number: 4304753012

Well Name: Federal 432-30-9-19

Township T09.0S Range R19.0E Section 30

Meridian: SLBM

Operator: GASCO PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well
- Bottom Hole Location - OilGasDb

1,400 700 0 1,400 Feet

1:13,484

RECEIVED: August 09, 2012

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/2/2012
API NO. ASSIGNED: 43047530120000
WELL NAME: Federal 432-30-9-19
OPERATOR: GASCO PRODUCTION COMPANY (N2575)
PHONE NUMBER: 303 996-1803
CONTACT: Roger Knight

PROPOSED LOCATION: NESE 30 090S 190E
Permit Tech Review: ☑
SURFACE: 2000 FSL 0659 FEL
Engineering Review: ☐
BOTTOM: 2067 FSL 0666 FEL
Geology Review: ☑
COUNTY: UINTAH
LATITUDE: 40.00004
LONGITUDE: -109.81586
UTM SURF EASTINGS: 601079.00
NORTHINGS: 4428434.00
FIELD NAME: PARIETTE BENCH
LEASE TYPE: 1 - Federal
LEASE NUMBER: utu-37246
PROPOSED PRODUCING FORMATION(S): SPRING CANYON
SURFACE OWNER: 1 - Federal
COALBED METHANE: NO

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RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - ut1233
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 41-3530
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 173-26
Effective Date: 4/17/2012
Siting: 460' Fr Exterior Lease Boundary

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason

RECEIVED: August 21, 2012

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Federal 432-30-9-19
API Well Number: 43047530120000
Lease Number: utu-37246
Surface Owner: FEDERAL
Approval Date: 8/21/2012

Issued to:
GASCO PRODUCTION COMPANY, 8 Inverness Dr. East, Suite 100, Englewood, CO 80112

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-26. The expected producing formation or pool is the SPRING CANYON Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at http://oilgas.ogm.utah.gov

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: utu-37246

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
Federal 432-30-9-19

2. NAME OF OPERATOR:
GASCO PRODUCTION COMPANY

9. API NUMBER:
43047530120000

3. ADDRESS OF OPERATOR:
8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112

PHONE NUMBER:
303 996-1805 Ext

9. FIELD and POOL or WILDCAT:
PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2000 FSL 0659 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 30 Township: 09.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT
  Approximate date work will start: 8/21/2014
- ☐ SUBSEQUENT REPORT
  Date of Work Completion:
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Approved by the Utah Division of Oil, Gas and Mining

Date: August 22, 2013

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jessica Berg	303 996-1805	Regulatory Analyst

SIGNATURE	DATE
N/A	8/21/2013

RECEIVED: Aug. 21, 2013

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047530120000

API: 43047530120000
Well Name: Federal 432-30-9-19
Location: 2000 FSL 0659 FEL QTR NESE SEC 30 TWNP 090S RNG 190E MER S
Company Permit Issued to: GASCO PRODUCTION COMPANY
Date Original Permit Issued: 8/21/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Jessica Berg **Date:** 8/21/2013
Title: Regulatory Analyst **Representing:** GASCO PRODUCTION COMPANY

RECEIVED: Aug. 21, 2013

Form 3160-3
(August 2007)

RECEIVED
JUL 28 2014
DIV. OF OIL, GAS & MINING

RECEIVED
AUG 02 2012
BLM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

CONFIDENTIAL

5. Lease Serial No.
UTU37246

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
FEDERAL 432-30-9-19

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator
GASCO PRODUCTION COMPANY
Contact: ROGER KNIGHT
E-Mail: rknight@gascoenergy.com

9. API Well No.
43047530 12

3a. Address
7979 E TUFTS AVENUE, SUITE 1150
DENVER, CO 80237

3b. Phone No. (include area code)
Ph: 303-996-1803

10. Field and Pool, or Exploratory
PARIETTE BENCH
8 MILE FLAT NORTH

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface NESE 2000FSL 659FEL

At proposed prod. zone NESE 2067FSL 666FEL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 30 T9S R19E Mer SLB
SME: BLM

14. Distance in miles and direction from nearest town or post office*
25.3 SE FROM MYTON UT.

12. County or Parish
UINTAH

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
666

16. No. of Acres in Lease
600.00

17. Spacing Unit dedicated to this well

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
437

19. Proposed Depth
12760 MD
12760 TVD

20. BLM/BIA Bond No. on file
UT1233

21. Elevations (Show whether DF, KB, RT, GL, etc.
4810 GL

22. Approximate date work will start
11/12/2012

23. Estimated duration
20 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
ROGER KNIGHT Ph: 303-996-1803

Date
08/02/2012

Title
AUTHORIZED REPRESENTATIVE

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
JUL 18 2014

Title
Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Electronic Submission #144590 verified by the BLM Well Information System
For GASCO PRODUCTION COMPANY, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 08/28/2012 (12LBR0868AE)

NOTICE OF APPROVAL

UDOGM

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**GASCO PRODUCTION COMPANY**	**Location:**	**NESE, Sec. 30, T9S, R19E**
Well No:	**FEDERAL 432-30-9-19**	**Lease No:**	**UTU-37246**
API No:	**43-047-53012**	**Agreement:**	

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Company/Operator: Gasco Production Company

Well Name & Numbers: Federal 212-29-9-19, Federal 213-29-9-19, Federal 221-19-9-19, Federal 321-29-19, Federal 412-29-9-19, Federal 413-29-9-19, Federal 414-29-9-19, Federal 322-29-9-19, Federal 323-29-9-19, Federal 421-29-9-19, Federal 431-29-9-19, **Federal 432-29-9-19**, Federal 333-30-9-19, Federal 424-30-9-19, Federal 432-30-9-19, and Federal 442-30-9-19

DOI-BLM-UT-G010-2013-132

Lease Number: UTU-037246, UTU-76034, and UTU-76262

Location: Sections 29 and 30, T7S, R20E

CONDITIONS OF APPROVAL:

- All reclamation activities will comply with the Green River Reclamation Guidelines
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled by the proponent throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use proposal (PUP) will be obtained for the project, by the proponent if applicable.
- A permitted paleontologist is to be present to monitor construction at the Federal 42-29-9-19 during all surface disturbing actives: examples include the following; building/or expansion of the well pad, access road, and pipelines.

This project involves drilling new wells on existing well pads, and includes 0.4 acres of disturbance from well pad expansion. Some areas that were previously disturbed will be redisturbed for this project.

Because of the close proximity of the existing wells to *Sclerocactus wetlandicus* individuals, the applicant has committed to the following measures

- Drilling on these well pads will be closed loop to limit the amount of re-disturbance and well pad expansion that will occur.
- The footprint of the well pads will be minimized as much as possible to minimize impacts to suitable Uinta Basin hookless cactus habitat. The BLM botanist will make recommendations for minimizing the footprint relative to Uinta Basin hookless cactus during the onsite. For example, on the 31-29-9-19 location, corner #2 will be moved to the edge of existing disturbance.
- A BLM-approved botanist will be on site during any construction and drilling operations to make sure activities do not impact plants. The BLM-approved botanist will install silt fencing at the edge of the proposed disturbance to prevent impacts to *Sclerocactus wetlandicus* individuals and will remove them at the end of construction.
- Any construction work associated with this proposed project will happen outside of flowering season (usually April through May) as determined by a BLM-approved botanist.
- Any backfill/spoils/topsoils will be stockpiled as far away from existing plants as possible (for example, on the side of the well pad that is furthest from existing plants).
- Water only (no chemicals, reclaimed production water, or oil field brine) will be used for project-related dust abatement from March through August, when *Sclerocactus* species are most vulnerable to dust-related impacts.
- Where the pipeline is within 50 feet of individual *Sclerocactus* plants or populations, the pipeline will either be hand-laid or laid by vehicles from the existing road and secured in place to prevent movement toward plants.
- After construction is completed, the BLM-approved botanist will provide a report to the BLM summarizing the methods and results of the avoidance measures.

- *Sclerocactus* spot checks will be conducted and approved for all planned disturbance areas on an annual basis the year following the 100% *Sclerocactus* clearance survey for this project. Results of spot checks may require additional pre-construction plant surveys as directed by the BLM and in coordination with the USFWS. If the proposed action or parts thereof have not occurred within four years of the original survey, coordination with the USFWS will be required and 100% clearance re-survey may be necessary prior to ground disturbing activities.
- Additional mitigation for project impacts in lieu of the 3-year *Sclerocactus* monitoring requirement (for plants within 300 feet of disturbance) may include contribution to the *Sclerocactus* mitigation fund, with the amount determined during section 7 consultation with the USFWS. This monetary amount must be paid by Gasco to the *Sclerocactus* Mitigation Fund-BLM within 90 days upon receipt of concurrence, or before construction of the Project begins. The payment should be made to; Sclerocactus Mitigation Fund-BLM, Michelle Olson, Manager, Impact-Directed Environmental Accounts, National Fish and Wildlife Foundation, 1133 Fifteenth Street NW, Suite 1100, Washington, DC 20005.
- Gasco Agrees to identify well pads for participation restoration and reclamation work with BLM, USFWS and researchers from Utah State University.
- In order to mitigate for disturbance within Core Conservation Area Level 2 and to cactus within 300 feet of surface disturbances, Gasco Production Company will contribute $5,400.00 to the *Sclerocatus* mitigation fund to aid in the recovery of the species.
    - Sclerocatus Mitigation Fund-BLM, Michelle Olson, Manage, Impact-Directed Environmental Accounts, National Fish and Wildlife Foundation, 1133 Fifteenth Street NW, Suite 1100, Washington, DC 20005

The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved

location is best.

- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
  - do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
  - limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
  - limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
  - screen all pump intakes with 3/32 inch mesh material.
  - approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

  Northeastern Region
  318 North Vernal Ave, Vernal, UT 84078
  Phone: (435) 781-9453

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

UTU-37246
Federal 333-30- 9-19
Federal 424-30- 9-19
Federal 432-30- 9-19
Federal 442-30- 9-19

- Coa casing upgrade required
- Gasco apd_coa Downhole

- The operator's proposed surface casing of 8.625 " 28.0 # J-55 LT&C (straight string) does 'not' meet the regulatory standards for a burst design coefficient greater then 1.000. Operator's surface casing is to be upgraded in weight.Electronic/mechanical mud monitoring equipment shall include from surface casing shoe to TD a; pit volume totalizer (PVT); stroke counter; and flow sensor.

- BOPE requirement for drilling production casing segment of wellbore is for a BOP 10m system.The operator is required to use '10,000' psi annular preventer for the specified BOP 10M system.10M BOPE shall meet all requirements of Onshore Order #2, including an Upper and Lower kelly cock valve described as an; Upper kelly cock valve with handle available; and Lower kelly cock valve with handle available.

- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 75 feet.

- All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.

- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.

- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.

- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order

No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: utu-37246

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
FEDERAL 332-30-9-19

2. NAME OF OPERATOR:
GASCO PRODUCTION COMPANY

9. API NUMBER:
43047530120000

3. ADDRESS OF OPERATOR:
8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112

PHONE NUMBER:
303 996-1805 Ext

9. FIELD and POOL or WILDCAT:
PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2000 FSL 0659 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 30 Township: 09.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT
  Approximate date work will start:
- ☐ SUBSEQUENT REPORT
  Date of Work Completion:
- ✓ SPUD REPORT
  Date of Spud:
  8/4/2014
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco spud this well 8/4/14. Drilled a 20" hole and cemented 100' of 16", H-40, 48# STC conductor.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
August 08, 2014

NAME (PLEASE PRINT)
Jessica Berg

PHONE NUMBER
303 996-1805

TITLE
Regulatory Analyst

SIGNATURE
N/A

DATE
8/7/2014

RECEIVED: Aug. 07, 2014

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: utu-37246

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112

PHONE NUMBER:
303 996-1805 Ext

9. FIELD and POOL or WILDCAT:
PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2000 FSL 0659 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 30 Township: 09.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 8/11/2014	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	✓ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Change BHL

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

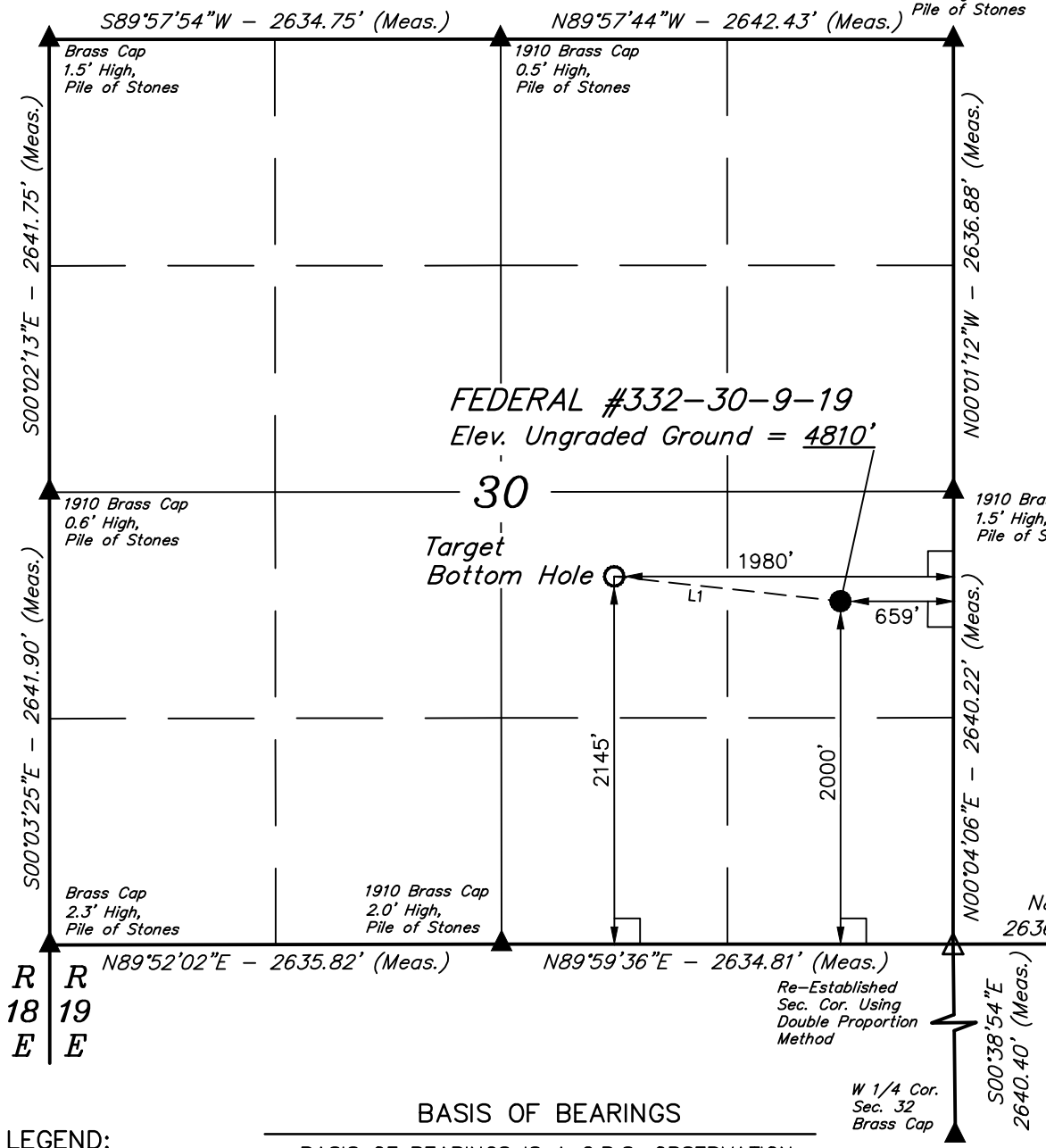
Gasco requests a change in well name to the Federal 332-30-9-19 and a change in bottom hole location from what was permitted (2067' FSL & 666' FEL) to 2145' FSL & 1980' FEL. A new plat has been attached as well as a new directional drilling survey and plot. A new drilling program has been submitted with a proposed TVD of 12760'and a proposed MD of 12906'. Gasco also proposes changes in the casing program as outlined in the attached drilling plan.

Approved by the Utah Division of Oil, Gas and Mining
August 11, 2014
Date:
By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jessica Berg	303 996-1805	Regulatory Analyst
SIGNATURE		**DATE**
N/A		7/30/2014

RECEIVED: Jul. 30, 2014

T9S, R19E, S.L.B.&M.



GASCO PRODUCTION COMPANY

Well location, FEDERAL #332-30-9-19, located as shown in the NE 1/4 SE 1/4 of Section 30, T9S, R19E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 14, T10S, R18E, S.L.B.&M., TAKEN FROM THE MOON BOTTOM QUADRANGLE, UTAH, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5129 FEET.

LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

N

1000' 500' 0' 1000'

SCALE

LINE TABLE

LINE	DIRECTION	LENGTH
L1	N83°43'55"W	1329.13'

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REGISTERED LAND SURVEYOR No. 161319 KAY STATE OF UTAH

02-12-14

REV: 04-30-12 REV: 02-11-14 S.S.
REV: 03-15-12 REV: 11-20-13 J.J.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°00'01.91" (40.000531)	LATITUDE = 40°00'00.47" (40.000131)
LONGITUDE = 109°49'14.89" (109.820803)	LONGITUDE = 109°48'57.92" (109.816089)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°00'02.04" (40.000567)	LATITUDE = 40°00'00.60" (40.000167)
LONGITUDE = 109°49'12.38" (109.820106)	LONGITUDE = 109°48'55.41" (109.815392)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 02-24-12	DATE DRAWN: 02-27-12
PARTY J.F. B.S. T.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE GASCO PRODUCTION COMPANY	

GASCO PRODUCTION COMPANY

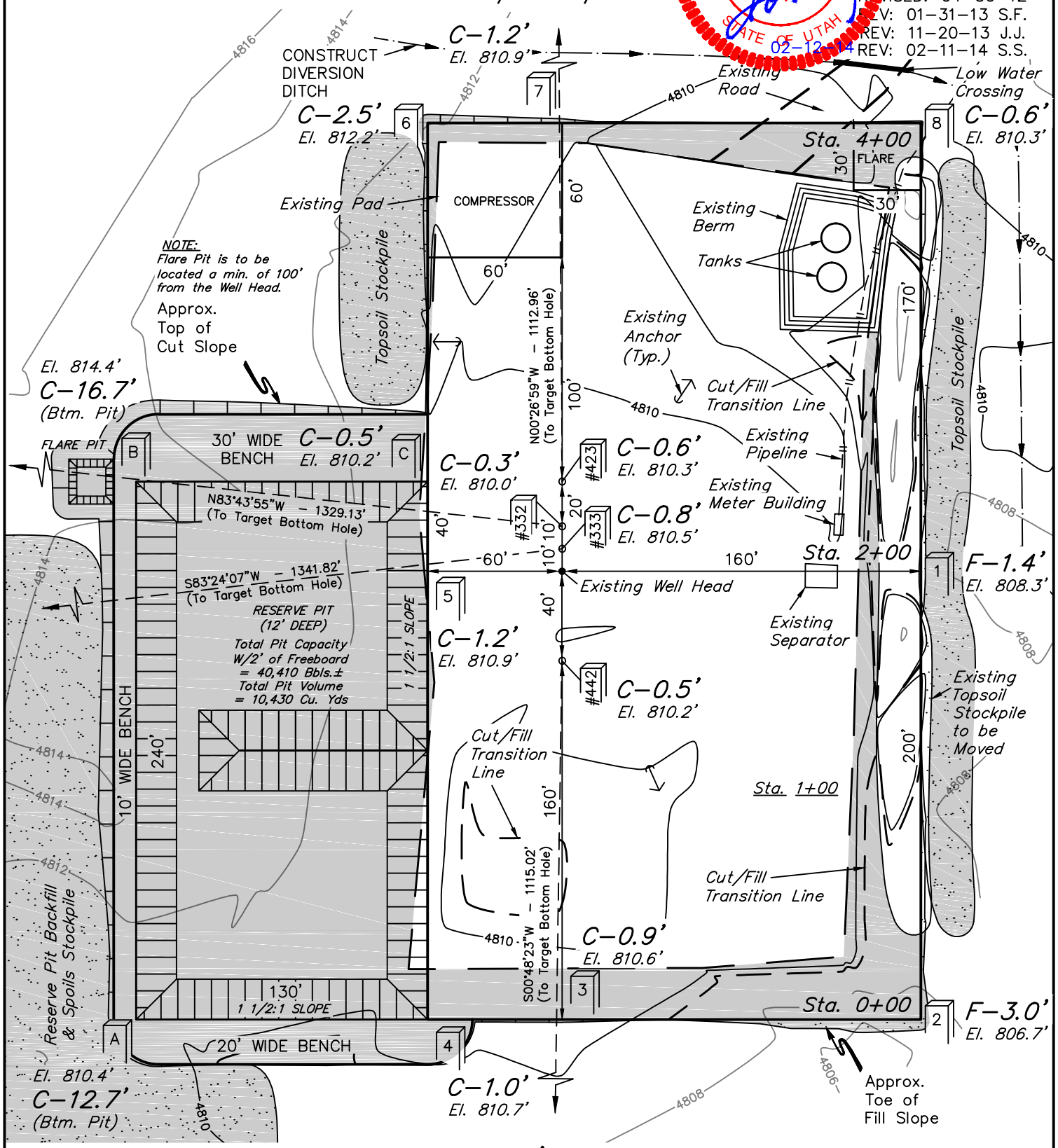
LOCATION LAYOUT FOR

FEDERAL #442-30-9-19, #333-30-9-19,
#332-30-9-19, & #423-30-9-19
SECTION 30, T9S, R19E, S.L.B.&M.
NE 1/4 SE 1/4

FIGURE #1

SCALE: 1" = 60'
DATE: 12-05-11
DRAWN BY: T.B.
REVISED: 02-27-12
REVISED: 03-15-12
REVISED: 04-03-12
REVISED: 04-30-12
REV: 01-31-13 S.F.
REV: 11-20-13 J.J.
REV: 02-11-14 S.S.

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH 02-12-2014



Elev. Ungraded Ground At #333-30 Loc. Stake = 4810.5'
FINISHED GRADE ELEV. AT #333-30 LOC. STAKE = 4809.7'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

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Gasco Production Company
Federal 332-30-9-19
NESE, Section 30, Township 9 South, Range 19 East
Uintah County, Utah
Lease No. UTU- 37246

ONSHORE OIL & GAS ORDER NO. 1

Drilling Program

1. Estimated Tops of Important Geological Markers

Formation	Depth	Subsea
Uinta	surface	surface
Green River	1620’	3230’
Wasatch	5310’	-420’
Dark Canyon	9110’	-4220’
Lower Mesaverde	10690’	-5800’
Castlegate	11570’	-6680’
Spring Canyon	12500’	-7610’
TVD	12740’	

2. Estimated Depth of Anticipated Water, Oil, Gas or Mineral Formations

Substance	Formation	Depth
Oil	Green River	3950’ - 5310”
Gas	Wasatch	5500’ – 9010’
Gas	Dark Canyon	9010’ – 10689’
Gas	Lower Mesaverde	10690’ - 11499’
Gas	Spring Canyon	12500’ – 12740’

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment

All well control equipment will be in accordance to Onshore Order No. 2 for 10M Systems and are as follows:

10,000# BOP with 4 ½” Pipe Rams
10,000# BOP with Blind Rams
5,000# Annular

Ram type preventers and associated equipment shall be tested to the approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline on pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

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Pressure Control Equipment Continued

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

a. when initially installed;
b. whenever any seal subject to test pressure is broken
c. following related repairs; and
d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more that once a day.

A BPOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP 53 Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling cement plugs.

The District Office will be notified, with sufficient lead time, in order to have a BLM representative on location during testing.

a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not yet been chosen to drill this well, most of the equipment for this depth will utilize 10M working BOP.

b. A choke line and kill line are to be properly installed. The kill line is not to be used as a fill-up line.

c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.

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d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

Special Drilling Operations to be followed by Gasco Production Company during operations air/gas drilling of Surface Hole

The following equipment will be operational and implemented during any air/gas drilling operations for the surface hole as per Onshore Order 2 III. E. 1.:

Properly lubricated and maintained rotating head
Spark Arresters on engines or water cooled exhaust
Blooie line discharge 100 feet from well bore and securely anchored
Straight run on blooie line unless other wised approved
Deduster equipment
All cuttings and circulating medium shall be directed into a reserve or blooie pit
Float valve above bit
Automatic igniter or continuous pilot light on the blooie line
Compressors located in opposite direction from the blooie line a minimum of 100 feet from the well bore

Variances Requested:

Variance for Requirement BOPE
Properly lubricated and maintained rotating head and air bowl diverter system.

Variance for Requirement Mud Material
Mud circulating equipment, water and mud materials sufficient to maintain the capacity of the hole and circulating tanks or pits. Skid pump shall be available to pump water from an auxiliary water source such as reserve pit or water storage tank for well control purposes.

Variance for Requirement Blooie Line Length
Requirement for blooie line discharge of 100 feet from well. Blooie line discharge distance between well and reserve pit is 60 feet.

4. Proposed Casing and Cementing Program

a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones abnormally pressured zones and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics. All indications of usable water shall be reported.

b. Casing Program

	Depth	Hole Size	O.D.	Grade		Type
Conductor	100’	20”	16”	H-40	#48	STC
Surface	3500’	11”	8 5/8”	J-55	#32	LTC
Production	12,906’	7 7/8”	4 ½”	HCP-110	#13.5	LTC

c. Casing design subject to revision based on geologic conditions encountered.

d. Cement Program

	Est. Top of Cement	Sacks/Cement Type	Yield	Supply Wt.	
Conductor	surface	110/ POZ /Ready Mix	1.31	14.3	
Surface	surface	465/ Premium Lite II	3.21	11.0	Lead
		145 Class G	1.17	15.8	Tail
Production	surface	530/ Premium Lite II	2.26	12.0	Lead
		1530/ 50/50 POZ	1.31	14.3	Tail

e. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

f. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller’s log.

g. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, form 3160-5 “Sundry Notices and Reports on Wells”, must Include complete information concerning:

   a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.

   b. Temperature or bond log must be submitted for each well where the casing cement was not circulated to the surface.

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h. Auxiliary equipment to be used is as follows:

1. Kelly cock

2. A bit float

3. A sub with full opening valve.

5. Drilling Fluids Program:

Interval	Type	Wt. (ppg)	Viscosity	pH	Water Loss
0-100’	Air Mist	8.33	NA	NA	NA
100’-3500’	Air Mist	9.0	35	NA	NA
3500’-TD	Water Based Mud	8.3 – 11.6		10-10.5	NA

a. Sufficient quantities of mud material will be maintained on site or be readily available for the purpose of assuring well control. SPR will be recorded on a daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

b. No chromate additives will be used in the mud system on Federal lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

c. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well.

d. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

e. Water will come from: Water Right No. 41-3530.

f. Water will be hauled by commercial transport over the access roads shown on Attached Maps “A” and “B”.

g. No water well will be drilled on this lease

6. Evaluation Program

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stern tests are anticipated, if DST’s are run, the following requirements will be adhered to:

Initial opening of the drill stern test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer (AO). However, DST’s may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DST’s may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided means for reverse circulation.

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Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that ate required to “run” during the test shall have spark arresters or water cooled exhausts.

b. The logging program will consist of Schlumberger Platform Express (or equivalent) to be run from base of surface casing to TD.

c. No cores are anticipated.

d. Whether the well is completed as a dry hole or as a producer, “Well Completion and Recompletion Report and Log” (Form 3160-4) will be submitted no latter than 30 days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well tested data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4.
Samples (cutting, fluids, and/or gases will be submitted when requested by the AO.

e. The anticipated completion program is as follows: Perform multistage fracs and complete all productive zones present in the wellbore. Produce all zones commingled.

f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

7. Abnormal Temperatures and Pressures

a. The expected bottom hole pressure is 7550psig

The maximum bottom hole temperature anticipated is 210 degrees Fahrenheit.

b. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 10000# BOP and rotating head.

8. Anticipated Starting Dates and Notifications of Operations

a. Drilling is anticipated to commence immediately upon approval

b. It is anticipated that the drilling of this well will take approximately 20 days.

c. The Vernal BLM and UDOGM shall be notified of the anticipated date of location construction and anticipated spud date.

d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior to approval from the AO

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will be obtained and notification given before resuming operations.

e. The spud date will be reported orally to the AO within 48 hours of spudding. If the spudding occurs on a weekend or holiday, the report will be submitted via voice mail and/or e-mail to the AO.

f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 “Monthly Report Operations”, starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM and UDOGM.

g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual or undesirable events shall be reported promptly to the AO in accordance with the requirements of NTL-3A or its revision.

h. If a replacement rig is contemplated for completion operations, a “Sundry Notice” Form 3160-5 to that effect will be filed, or prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

i. Should the well be successfully completed for production, the AO will be notified when the well is placed on producing status. Written notification, e-mail or otherwise, will be sent no latter than 5 days following the date on which the well is placed on production.

j. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

k. Pursuant to NTL-4A lessees or operators are authorized to vent/flare gas during initial well evaluation test, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day authorized test period.

l. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the BLM, Vernal Field Office and UDOGM within 60 days of installation or first production whichever occurs first. All site security regulations as specified in Onshore Order No.3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).
m. A first production conference will be scheduled within 15 days after receipt of the first production notice.

n. No well abandonment operations will commence without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A “Subsequent Report of Abandonment” Form 3160-5, will be filed within 30 days following the completion of the well for abandonment. The report will indicate where plugs were placed and the current status of the surface restoration. Final abandonment will not be approved until the surface reclamation work has been completed to the satisfaction of the AO.

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o. Pursuant to Onshore Oil and Gas Order No.1, lessees and operators have the responsibility of operating in a manner which conforms with the applicable Federal laws and regulations and with the State and local laws and regulations to the extent that such laws are applicable to operations on Federal lands.

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

Phone: (435)781-4400
Fax: (435)781-4410

After Hours:
Michael Lee Petroleum Engineer (435)828-4470

Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

Phone 801-538-5340
Fax 801-539-3940

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Gasco Energy

Uintah Co., UT
Sec.30 - T9S - R19E
Federal #332-30-9-19

Wellbore #1

Plan: Design #2

Standard Survey Report

25 February, 2014

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Gyrodata, Inc.

Survey Report

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19
Project:	Uintah Co., UT	**TVD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Site:	Sec.30 - T9S - R19E	**MD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Design #2	**Database:**	EDM 5000.1 Single User Db

Project Uintah Co., UT

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Sec.30 - T9S - R19E

Site Position:		**Northing:**	611,569.11 usft	**Latitude:**	40° 0' 0.788 N
From:	Map	**Easting:**	2,471,902.05 usft	**Longitude:**	109° 48' 55.411 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.08 °

Well Federal #332-30-9-19

Well Position	**+N/-S**	0.0 usft	**Northing:**	611,550.06 usft	**Latitude:**	40° 0' 0.600 N
	+E/-W	0.0 usft	**Easting:**	2,471,902.40 usft	**Longitude:**	109° 48' 55.411 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	4,810.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/18/2014	10.86	65.74	52,021

Design Design #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	276.30

Survey Tool Program **Date** 2/25/2014

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	12,906.2	Design #2 (Wellbore #1)	MWD	MWD - Standard

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
13 3/8"									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
400.0	2.00	276.30	400.0	0.2	-1.7	1.7	2.00	2.00	0.00
500.0	4.00	276.30	499.8	0.8	-6.9	7.0	2.00	2.00	0.00
600.0	6.00	276.30	599.5	1.7	-15.6	15.7	2.00	2.00	0.00
700.0	8.00	276.30	698.7	3.1	-27.7	27.9	2.00	2.00	0.00

RECEIVED: Jul. 30, 2014

Gyrodata, Inc.

Survey Report

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19
Project:	Uintah Co., UT	**TVD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Site:	Sec.30 - T9S - R19E	**MD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Design #2	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
800.0	10.00	276.30	797.5	4.8	-43.3	43.5	2.00	2.00	0.00
900.0	12.00	276.30	895.6	6.9	-62.2	62.6	2.00	2.00	0.00
1,000.0	14.00	276.30	993.1	9.3	-84.6	85.1	2.00	2.00	0.00
1,050.0	15.00	276.30	1,041.5	10.7	-97.0	97.6	2.00	2.00	0.00
Start 4377.7 hold at 1050.0 MD									
1,100.0	15.00	276.30	1,089.8	12.1	-109.9	110.6	0.00	0.00	0.00
1,200.0	15.00	276.30	1,186.4	15.0	-135.6	136.4	0.00	0.00	0.00
1,300.0	15.00	276.30	1,282.9	17.8	-161.3	162.3	0.00	0.00	0.00
1,400.0	15.00	276.30	1,379.5	20.6	-187.1	188.2	0.00	0.00	0.00
1,500.0	15.00	276.30	1,476.1	23.5	-212.8	214.1	0.00	0.00	0.00
1,600.0	15.00	276.30	1,572.7	26.3	-238.5	240.0	0.00	0.00	0.00
1,700.0	15.00	276.30	1,669.3	29.2	-264.2	265.8	0.00	0.00	0.00
1,800.0	15.00	276.30	1,765.9	32.0	-290.0	291.7	0.00	0.00	0.00
1,900.0	15.00	276.30	1,862.5	34.8	-315.7	317.6	0.00	0.00	0.00
2,000.0	15.00	276.30	1,959.1	37.7	-341.4	343.5	0.00	0.00	0.00
2,100.0	15.00	276.30	2,055.7	40.5	-367.1	369.4	0.00	0.00	0.00
2,200.0	15.00	276.30	2,152.3	43.4	-392.9	395.3	0.00	0.00	0.00
2,300.0	15.00	276.30	2,248.9	46.2	-418.6	421.1	0.00	0.00	0.00
2,400.0	15.00	276.30	2,345.5	49.0	-444.3	447.0	0.00	0.00	0.00
2,500.0	15.00	276.30	2,442.1	51.9	-470.0	472.9	0.00	0.00	0.00
2,560.0	15.00	276.30	2,500.0	53.6	-485.5	488.4	0.00	0.00	0.00
8 5/8"									
2,600.0	15.00	276.30	2,538.6	54.7	-495.8	498.8	0.00	0.00	0.00
2,700.0	15.00	276.30	2,635.2	57.6	-521.5	524.7	0.00	0.00	0.00
2,800.0	15.00	276.30	2,731.8	60.4	-547.2	550.5	0.00	0.00	0.00
2,900.0	15.00	276.30	2,828.4	63.2	-573.0	576.4	0.00	0.00	0.00
3,000.0	15.00	276.30	2,925.0	66.1	-598.7	602.3	0.00	0.00	0.00
3,100.0	15.00	276.30	3,021.6	68.9	-624.4	628.2	0.00	0.00	0.00
3,200.0	15.00	276.30	3,118.2	71.8	-650.1	654.1	0.00	0.00	0.00
3,300.0	15.00	276.30	3,214.8	74.6	-675.9	680.0	0.00	0.00	0.00
3,400.0	15.00	276.30	3,311.4	77.4	-701.6	705.8	0.00	0.00	0.00
3,500.0	15.00	276.30	3,408.0	80.3	-727.3	731.7	0.00	0.00	0.00
3,600.0	15.00	276.30	3,504.6	83.1	-753.0	757.6	0.00	0.00	0.00
3,700.0	15.00	276.30	3,601.2	86.0	-778.8	783.5	0.00	0.00	0.00
3,800.0	15.00	276.30	3,697.8	88.8	-804.5	809.4	0.00	0.00	0.00
3,900.0	15.00	276.30	3,794.4	91.6	-830.2	835.2	0.00	0.00	0.00
4,000.0	15.00	276.30	3,890.9	94.5	-855.9	861.1	0.00	0.00	0.00
4,100.0	15.00	276.30	3,987.5	97.3	-881.7	887.0	0.00	0.00	0.00
4,200.0	15.00	276.30	4,084.1	100.1	-907.4	912.9	0.00	0.00	0.00
4,300.0	15.00	276.30	4,180.7	103.0	-933.1	938.8	0.00	0.00	0.00
4,400.0	15.00	276.30	4,277.3	105.8	-958.8	964.7	0.00	0.00	0.00
4,500.0	15.00	276.30	4,373.9	108.7	-984.6	990.5	0.00	0.00	0.00
4,600.0	15.00	276.30	4,470.5	111.5	-1,010.3	1,016.4	0.00	0.00	0.00
4,700.0	15.00	276.30	4,567.1	114.3	-1,036.0	1,042.3	0.00	0.00	0.00

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Gyrodata, Inc.

Survey Report

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19
Project:	Uintah Co., UT	**TVD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Site:	Sec.30 - T9S - R19E	**MD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Design #2	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.0	15.00	276.30	4,663.7	117.2	-1,061.7	1,068.2	0.00	0.00	0.00
4,900.0	15.00	276.30	4,760.3	120.0	-1,087.5	1,094.1	0.00	0.00	0.00
5,000.0	15.00	276.30	4,856.9	122.9	-1,113.2	1,120.0	0.00	0.00	0.00
5,100.0	15.00	276.30	4,953.5	125.7	-1,138.9	1,145.8	0.00	0.00	0.00
5,200.0	15.00	276.30	5,050.1	128.5	-1,164.6	1,171.7	0.00	0.00	0.00
5,300.0	15.00	276.30	5,146.6	131.4	-1,190.4	1,197.6	0.00	0.00	0.00
5,381.1	15.00	276.30	5,225.0	133.7	-1,211.2	1,218.6	0.00	0.00	0.00
Wasatch									
5,400.0	15.00	276.30	5,243.2	134.2	-1,216.1	1,223.5	0.00	0.00	0.00
5,427.7	15.00	276.30	5,270.0	135.0	-1,223.2	1,230.6	0.00	0.00	0.00
Start Drop -2.00									
5,500.0	13.55	276.30	5,340.1	137.0	-1,240.9	1,248.5	2.00	-2.00	0.00
5,600.0	11.55	276.30	5,437.7	139.3	-1,262.5	1,270.2	2.00	-2.00	0.00
5,700.0	9.55	276.30	5,536.0	141.4	-1,280.8	1,288.5	2.00	-2.00	0.00
5,800.0	7.55	276.30	5,634.9	143.0	-1,295.5	1,303.4	2.00	-2.00	0.00
5,900.0	5.55	276.30	5,734.2	144.2	-1,306.9	1,314.8	2.00	-2.00	0.00
6,000.0	3.55	276.30	5,833.9	145.1	-1,314.8	1,322.8	2.00	-2.00	0.00
6,100.0	1.55	276.30	5,933.8	145.6	-1,319.2	1,327.2	2.00	-2.00	0.00
6,177.7	0.00	0.00	6,011.5	145.7	-1,320.2	1,328.3	2.00	-2.00	0.00
Start 6728.5 hold at 6177.7 MD									
6,200.0	0.00	0.00	6,033.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,133.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,233.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,333.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,433.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,533.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,633.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,733.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,833.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,100.0	0.00	0.00	6,933.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,033.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,133.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,233.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,333.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,433.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,533.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,633.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,733.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,833.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,100.0	0.00	0.00	7,933.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,033.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,133.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,233.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00

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Gyrodata, Inc.

Survey Report

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19
Project:	Uintah Co., UT	**TVD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Site:	Sec.30 - T9S - R19E	**MD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Design #2	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.0	0.00	0.00	8,333.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,433.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,533.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,633.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,733.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,833.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,100.0	0.00	0.00	8,933.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,033.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,226.2	0.00	0.00	9,060.0	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
Dark Canyon									
9,300.0	0.00	0.00	9,133.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,233.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,333.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,433.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,533.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,633.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,733.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,833.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,100.0	0.00	0.00	9,933.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,033.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,133.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,233.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,333.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,433.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,533.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,633.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
10,816.2	0.00	0.00	10,650.0	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
Lower Meseverde									
10,900.0	0.00	0.00	10,733.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,833.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,100.0	0.00	0.00	10,933.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,033.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,133.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,233.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,333.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,600.0	0.00	0.00	11,433.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,676.2	0.00	0.00	11,510.0	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
Castlegate									
11,700.0	0.00	0.00	11,533.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,800.0	0.00	0.00	11,633.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
11,900.0	0.00	0.00	11,733.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,000.0	0.00	0.00	11,833.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,100.0	0.00	0.00	11,933.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,200.0	0.00	0.00	12,033.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00

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Gyrodata, Inc.

Survey Report

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19
Project:	Uintah Co., UT	**TVD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Site:	Sec.30 - T9S - R19E	**MD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Design #2	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.0	0.00	0.00	12,133.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,400.0	0.00	0.00	12,233.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,500.0	0.00	0.00	12,333.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,596.2	0.00	0.00	12,430.0	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
Spring Canyon									
12,600.0	0.00	0.00	12,433.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,700.0	0.00	0.00	12,533.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,800.0	0.00	0.00	12,633.8	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
12,906.2	0.00	0.00	12,740.0	145.7	-1,320.2	1,328.3	0.00	0.00	0.00
TD at 12906.2									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL Federal #332-30-9	0.00	0.00	12,740.0	145.7	-1,320.5	611,670.91	2,470,579.43	40° 0' 2.040 N	109° 49' 12.380 W
- plan misses target center by 0.2usft at 12906.2usft MD (12740.0 TVD, 145.7 N, -1320.2 E)									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
100.0	100.0	13 3/8"	13-3/8	17-1/2
2,560.0	2,500.0	8 5/8"	8-5/8	12-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,381.1	5,250.0	Wasatch		0.00	
9,226.2	9,085.0	Dark Canyon		0.00	
10,816.2	10,675.0	Lower Meseverde		0.00	
11,676.2	11,535.0	Castlegate		0.00	
12,596.2	12,455.0	Spring Canyon		0.00	
12,906.2	12,765.0	TD		0.00	

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Gyrodata, Inc.

Survey Report

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19
Project:	Uintah Co., UT	**TVD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Site:	Sec.30 - T9S - R19E	**MD Reference:**	WELL @ 4810.0usft (Original Well Elev)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Design #2	**Database:**	EDM 5000.1 Single User Db

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
300	300	0	0	Start Build 2.00
1050	1041	11	-97	Start 4377.7 hold at 1050.0 MD
5428	5270	135	-1223	Start Drop -2.00
6178	6011	146	-1320	Start 6728.5 hold at 6177.7 MD
12,906	12,740	146	-1320	TD at 12906.2

Checked By: _____ Approved By: _____ Date: _____

RECEIVED: Jul. 30, 2014

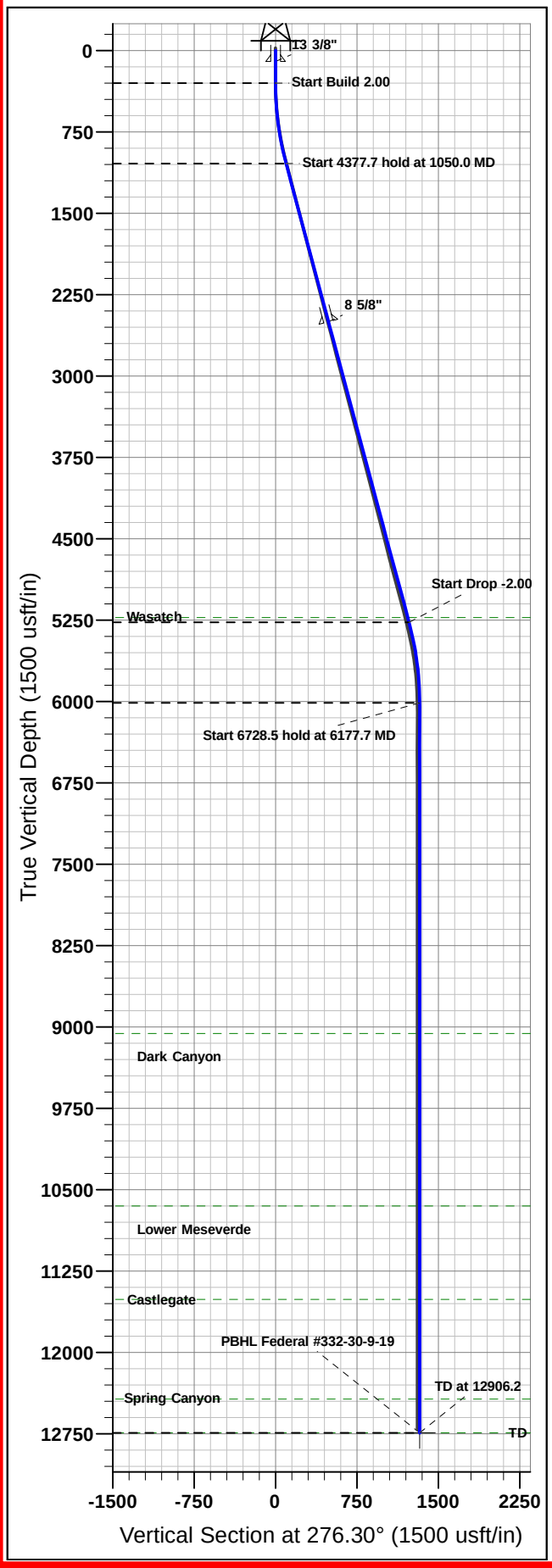
Sundry Number: 53916 API Well Number: 43047530120000

Company: Gasco Energy
Field: Uintah Co., UT
Location: Sec.30 - T9S - R19E
Well: Federal #332-30-9-19

Plan: Design #2 (Federal #332-30-9-19/Wellbore #1)

WELL @ 4810.0usft (Original Well Elev)

gyrodata
Precision Wellbore Placement



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	1050.0	15.00	276.30	1041.5	10.7	-97.0	2.00	276.30	97.6	PBHL Federal #332-30-9-19
4	5427.7	15.00	276.30	5270.0	135.0	-1223.2	0.00	0.00	1230.6	
5	6177.7	0.00	0.00	6011.5	145.7	-1320.2	2.00	180.00	1328.3	
6	12906.2	0.00	0.00	12740.0	145.7	-1320.2	0.00	0.00	1328.3	PBHL Federal #332-30-9-19

WELL DETAILS: Federal #332-30-9-19

Ground Elev: 4810.0
WELL @ 4810.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	611550.06	2471902.40	40° 0' 0.600 N	109° 48' 55.411 W	

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL Federal #332-30-9-19	12740.0	145.7	-1320.5	611670.90	2470579.43	Point

ANNOTATIONS

TVD	MD	Annotation
300.0	300.0	Start Build 2.00
1041.5	1050.0	Start 4377.7 hold at 1050.0 MD
5270.0	5427.7	Start Drop -2.00
6011.5	6177.7	Start 6728.5 hold at 6177.7 MD
12740.0	12906.2	TD at 12906.2

FORMATION TOPS ALONG WELLPATH

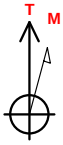
TVDPath	MDPath	Formation
5225.0	5381.1	Wasatch
9060.0	9226.2	Dark Canyon
10650.0	10816.2	Lower Meseverde
11510.0	11676.2	Castlegate
12430.0	12596.2	Spring Canyon
12740.0	12906.2	TD

CASING DETAILS

TVD	MD	Name	Size
100.0	100.0	13 3/8"	13-3/8
2500.0	2560.0	8 5/8"	8-5/8

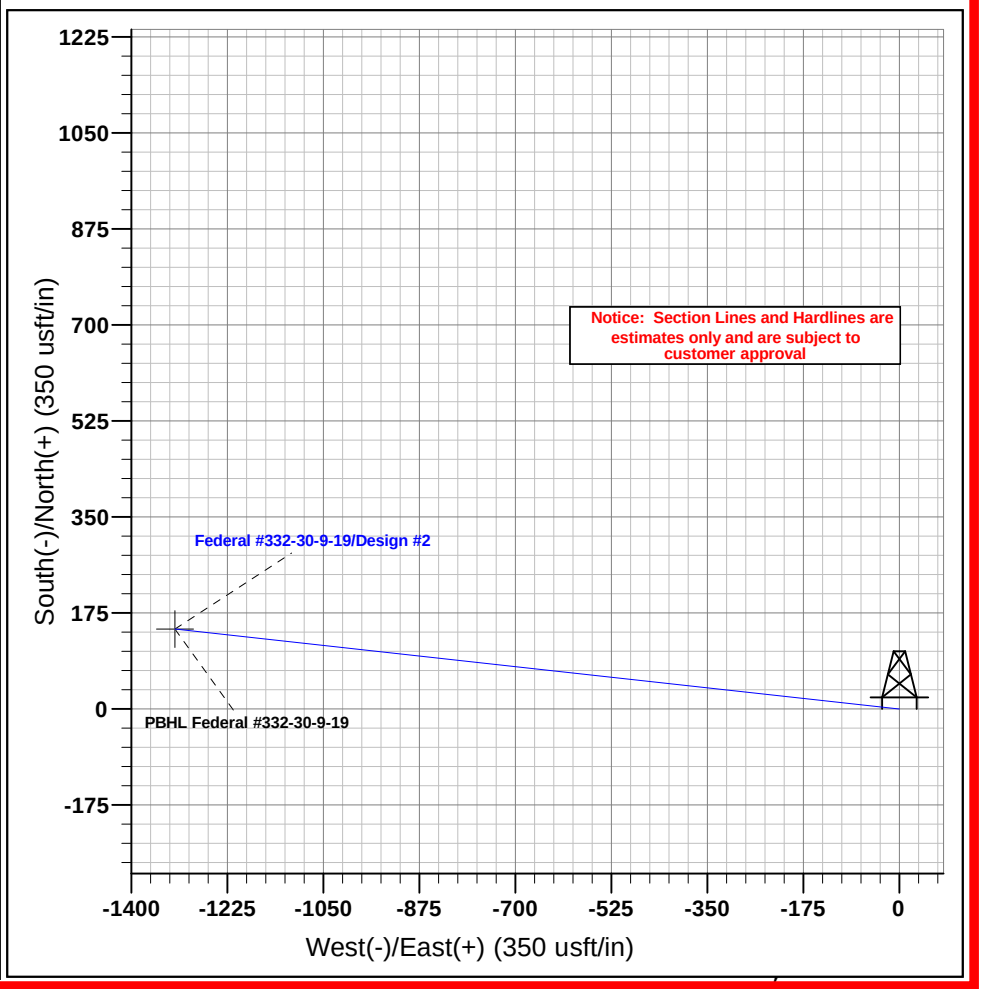
Plan: Design #2 (Federal #332-30-9-19/Wellbore #1)

Created By: M. Loucks Date: 13:07, February 25 2014



Azimuths to True North
Magnetic North: 10.86°

Magnetic Field
Strength: 52021.1snT
Dip Angle: 65.74°
Date: 2/18/2014
Model: IGRF2010



FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: utu-37246

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
FEDERAL 332-30-9-19

2. NAME OF OPERATOR:
GASCO PRODUCTION COMPANY

9. API NUMBER:
43047530120000

3. ADDRESS OF OPERATOR:
8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112

PHONE NUMBER:
303 996-1805 Ext

9. FIELD and POOL or WILDCAT:
PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2000 FSL 0659 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 30 Township: 09.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 9/18/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Change to APD

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco requests approval to use a 5M BOP while drilling this well per the attached diagram and revised drilling plan.

Accepted by the Utah Division of Oil, Gas and Mining

Date: October 07, 2014

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jessica Berg	303 996-1805	Regulatory Analyst
SIGNATURE		**DATE**
N/A		9/18/2014

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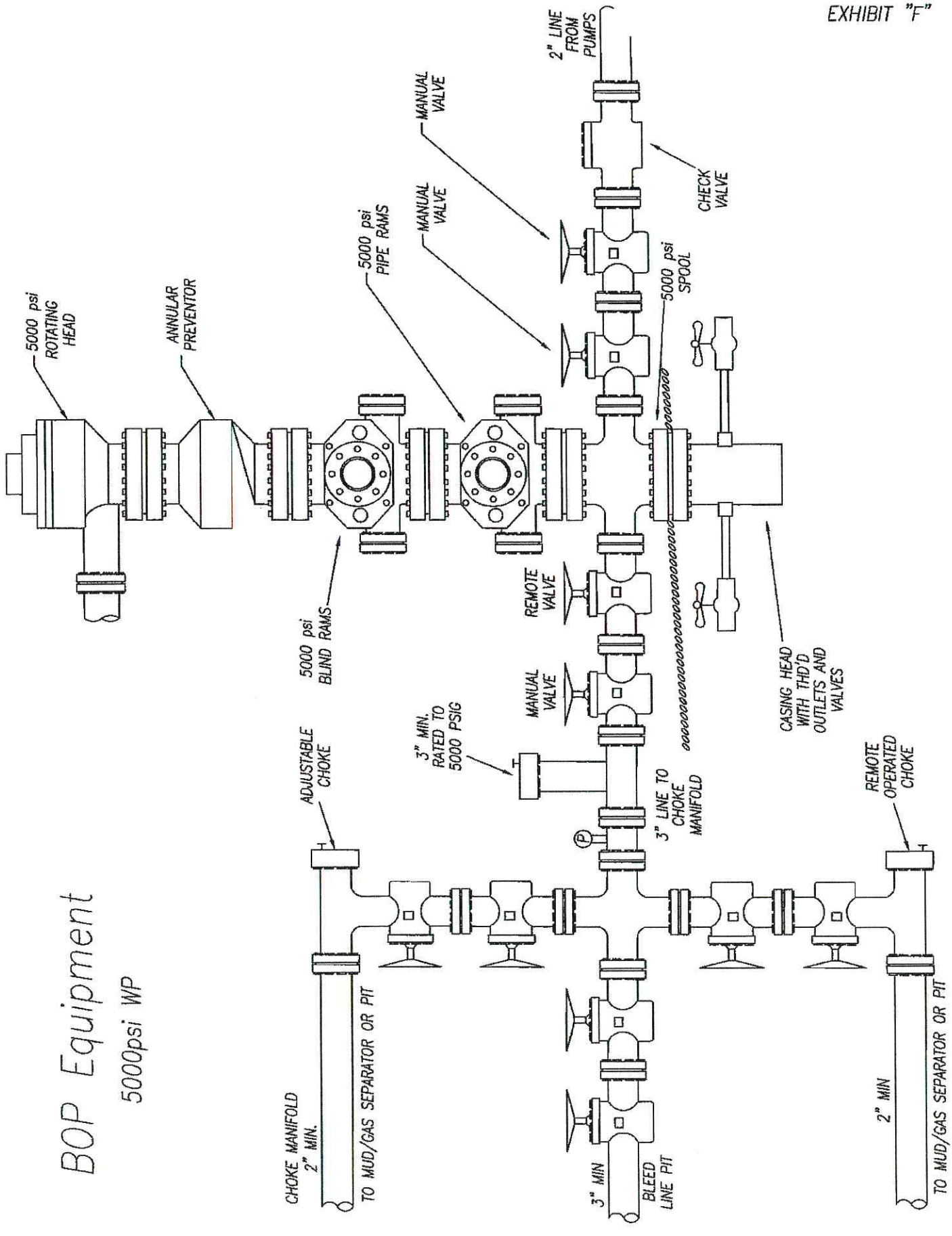
EXHIBIT "F"



BOP Equipment

5000psi WP

Gasco Production Company
Federal 332-30-9-19
NESE, Section 30, Township 9 South, Range 19 East
Uintah County, Utah
Lease No. UTU- 37246

ONSHORE OIL & GAS ORDER NO. 1

Drilling Program

1. Estimated Tops of Important Geological Markers

Formation	Depth	Subsea
Uinta	surface	surface
Green River	1620’	3230’
Wasatch	5310’	-420’
Dark Canyon	9110’	-4220’
Lower Mesaverde	10690’	-5800’
Castlegate	11570’	-6680’
Spring Canyon	12500’	-7610’
TVD	12740’	

2. Estimated Depth of Anticipated Water, Oil, Gas or Mineral Formations

Substance	Formation	Depth
Oil	Green River	3950’ - 5310”
Gas	Wasatch	5500’ – 9010’
Gas	Dark Canyon	9010’ – 10689’
Gas	Lower Mesaverde	10690’ - 11499’
Gas	Spring Canyon	12500’ – 12740’

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment

All well control equipment will be in accordance to Onshore Order No. 2 for 5M Systems and are as follows:

5,000# BOP with 4 ½” Pipe Rams
5,000# BOP with Blind Rams
5,000# Annular

Ram type preventers and associated equipment shall be tested to the approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline on pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

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Pressure Control Equipment Continued

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

a. when initially installed;
b. whenever any seal subject to test pressure is broken
c. following related repairs; and
d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more that once a day.

A BPOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP 53 Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling cement plugs.

The District Office will be notified, with sufficient lead time, in order to have a BLM representative on location during testing.

a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not yet been chosen to drill this well, most of the equipment for this depth will utilize a 5M working BOP.

b. A choke line and kill line are to be properly installed. The kill line is not to be used as a fill-up line.

c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.

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d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

Special Drilling Operations to be followed by Gasco Production Company during operations air/gas drilling of Surface Hole

The following equipment will be operational and implemented during any air/gas drilling operations for the surface hole as per Onshore Order 2 III. E. 1.:

Properly lubricated and maintained rotating head
Spark Arresters on engines or water cooled exhaust
Blooie line discharge 100 feet from well bore and securely anchored
Straight run on blooie line unless other wised approved
Deduster equipment
All cuttings and circulating medium shall be directed into a reserve or blooie pit
Float valve above bit
Automatic igniter or continuous pilot light on the blooie line
Compressors located in opposite direction from the blooie line a minimum of 100 feet from the well bore

Variances Requested:

Variance for Requirement BOPE
Properly lubricated and maintained rotating head and air bowl diverter system.

Variance for Requirement Mud Material
Mud circulating equipment, water and mud materials sufficient to maintain the capacity of the hole and circulating tanks or pits. Skid pump shall be available to pump water from an auxiliary water source such as reserve pit or water storage tank for well control purposes.

Variance for Requirement Blooie Line Length
Requirement for blooie line discharge of 100 feet from well. Blooie line discharge distance between well and reserve pit is 60 feet.

4. Proposed Casing and Cementing Program

a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones abnormally pressured zones and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics. All indications of usable water shall be reported.

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b. Casing Program

	Depth	Hole Size	O.D.	Grade		Type
Conductor	100’	20”	16”	H-40	#48	STC
Surface	3500’	11”	8 5/8”	J-55	#32	LTC
Production	12,906’	7 7/8”	4 ½”	HCP-110	#13.5	LTC

c. Casing design subject to revision based on geologic conditions encountered.

d. Cement Program

	Est. Top of Cement	Sacks/Cement Type	Yield	Supply Wt.	
Conductor	surface	110/ POZ /Ready Mix	1.31	14.3	
Surface	surface	465/ Premium Lite II	3.21	11.0	Lead
		145 Class G	1.17	15.8	Tail
Production	surface	530/ Premium Lite II	2.26	12.0	Lead
		1530/ 50/50 POZ	1.31	14.3	Tail

e. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

f. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller’s log.

g. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, form 3160-5 “Sundry Notices and Reports on Wells”, must Include complete information concerning:

   a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.

   b. Temperature or bond log must be submitted for each well where the casing cement was not circulated to the surface.

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h. Auxiliary equipment to be used is as follows:

1. Kelly cock

2. A bit float

3. A sub with full opening valve.

5. Drilling Fluids Program:

Interval	Type	Wt. (ppg)	Viscosity	pH	Water Loss
0-100’	Air Mist	8.33	NA	NA	NA
100’-3500’	Air Mist	9.0	35	NA	NA
3500’-TD	Water Based Mud	8.3 – 11.8		10-10.5	NA

a. Sufficient quantities of mud material will be maintained on site or be readily available for the purpose of assuring well control. SPR will be recorded on a daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

b. No chromate additives will be used in the mud system on Federal lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

c. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well.

d. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

e. Water will come from: Water Right No. 41-3530.

f. Water will be hauled by commercial transport over the access roads shown on Attached Maps “A” and “B”.

g. No water well will be drilled on this lease

6. Evaluation Program

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stern tests are anticipated, if DST’s are run, the following requirements will be adhered to:

Initial opening of the drill stern test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer (AO). However, DST’s may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DST’s may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided means for reverse circulation.

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Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that ate required to “run” during the test shall have spark arresters or water cooled exhausts.

b. The logging program will consist of Schlumberger Platform Express (or equivalent) to be run from base of surface casing to TD.

c. No cores are anticipated.

d. Whether the well is completed as a dry hole or as a producer, “Well Completion and Recompletion Report and Log” (Form 3160-4) will be submitted no latter than 30 days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well tested data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4.
Samples (cutting, fluids, and/or gases will be submitted when requested by the AO.

e. The anticipated completion program is as follows: Perform multistage fracs and complete all productive zones present in the wellbore. Produce all zones commingled.

f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

7. Abnormal Temperatures and Pressures

a. The expected bottom hole pressure is 7550psig

The maximum bottom hole temperature anticipated is 210 degrees Fahrenheit.

b. No hydrogen sulfide gas is anticipated. Abnormal pressures will be controlled with mud weight and 5000# BOP and rotating head.

8. Anticipated Starting Dates and Notifications of Operations

a. Drilling is anticipated to commence immediately upon approval

b. It is anticipated that the drilling of this well will take approximately 20 days.

c. The Vernal BLM and UDOGM shall be notified of the anticipated date of location construction and anticipated spud date.

d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior to approval from the AO

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will be obtained and notification given before resuming operations.

e. The spud date will be reported orally to the AO within 48 hours of spudding. If the spudding occurs on a weekend or holiday, the report will be submitted via voice mail and/or e-mail to the AO.

f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 “Monthly Report Operations”, starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM and UDOGM.

g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual or undesirable events shall be reported promptly to the AO in accordance with the requirements of NTL-3A or its revision.

h. If a replacement rig is contemplated for completion operations, a “Sundry Notice” Form 3160-5 to that effect will be filed, or prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

i. Should the well be successfully completed for production, the AO will be notified when the well is placed on producing status. Written notification, e-mail or otherwise, will be sent no latter than 5 days following the date on which the well is placed on production.

j. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

k. Pursuant to NTL-4A lessees or operators are authorized to vent/flare gas during initial well evaluation test, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day authorized test period.

l. A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9.d.), shall be submitted to the BLM, Vernal Field Office and UDOGM within 60 days of installation or first production whichever occurs first. All site security regulations as specified in Onshore Order No.3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b.4.).
m. A first production conference will be scheduled within 15 days after receipt of the first production notice.

n. No well abandonment operations will commence without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A “Subsequent Report of Abandonment” Form 3160-5, will be filed within 30 days following the completion of the well for abandonment. The report will indicate where plugs were placed and the current status of the surface restoration. Final abandonment will not be approved until the surface reclamation work has been completed to the satisfaction of the AO.

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o. Pursuant to Onshore Oil and Gas Order No.1, lessees and operators have the responsibility of operating in a manner which conforms with the applicable Federal laws and regulations and with the State and local laws and regulations to the extent that such laws are applicable to operations on Federal lands.

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

Phone: (435)781-4400
Fax: (435)781-4410

After Hours:
Michael Lee Petroleum Engineer (435)828-4470

Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

Phone 801-538-5340
Fax 801-539-3940

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FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: utu-37246

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
FEDERAL 332-30-9-19

2. NAME OF OPERATOR:
GASCO PRODUCTION COMPANY

9. API NUMBER:
43047530120000

3. ADDRESS OF OPERATOR:
8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112

PHONE NUMBER:
303 996-1805 Ext

9. FIELD and POOL or WILDCAT:
PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2000 FSL 0659 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 30 Township: 09.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT
  Approximate date work will start: 11/1/2014
- ☐ SUBSEQUENT REPORT
  Date of Work Completion:
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Temporary Water Lines

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

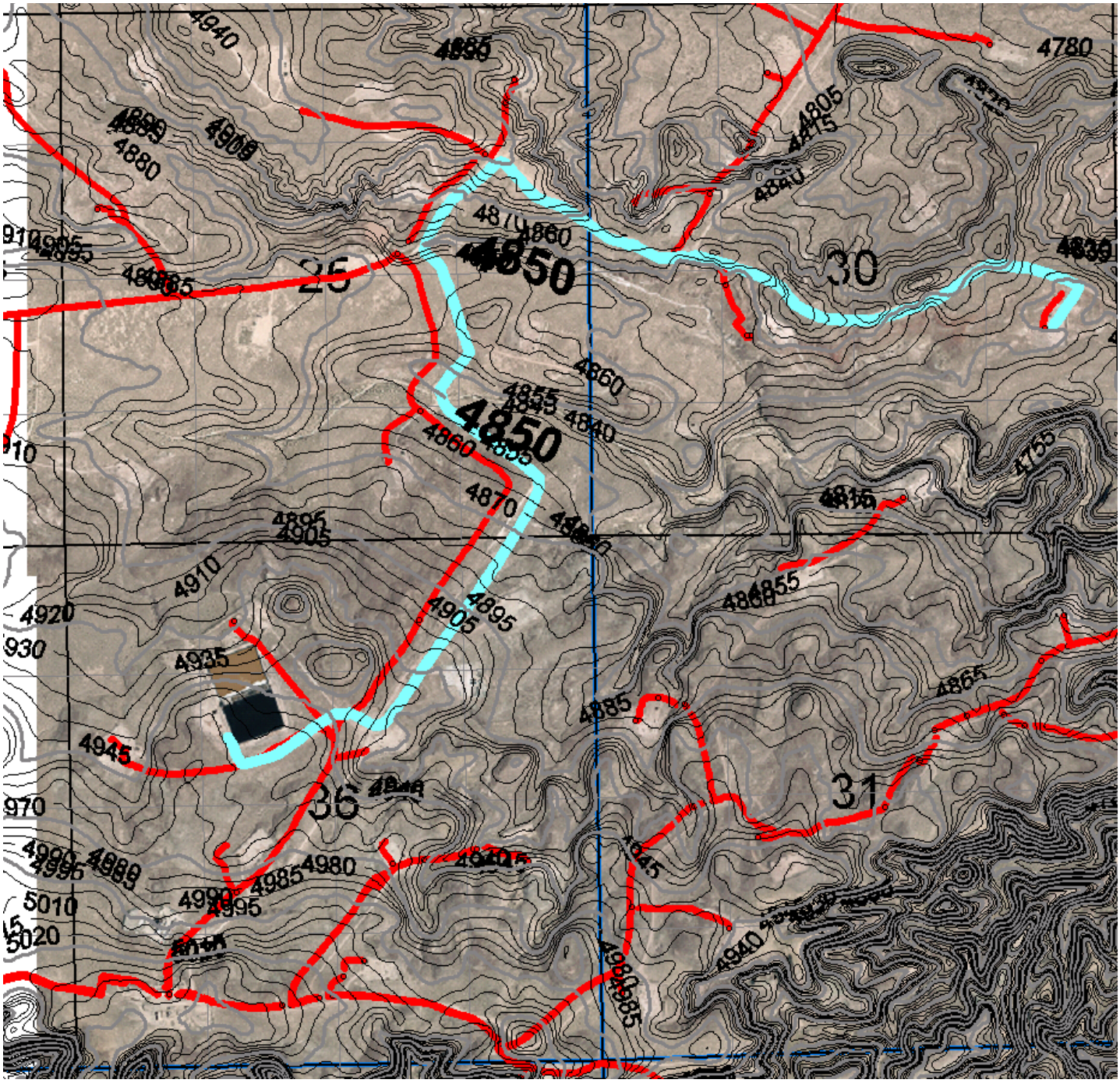
Gasco intends to lay approximately 15,938' of 10" lay-flat hose along the bar ditch of the road from the Desert Spring Evap Facility Pit #1 (South pit) located in the SENW of Section 36-9S-18E to the Fed 43-30-9-19 well pad to service the following wells: Fed 332-30-9-19, Fed 333-30-9-19, Fed 423-30-9-19, Fed 442-30-9-19 All lay-flat hose connections will be a twist and lock connection. Road crossings will have a one foot deep culvert installed. Gasco will use produced water from the evap pond and treat it by running it through a 150 micron filter then injecting MC B-8614 Biocide in the line. It will be pumped into frac tanks on location. All pumps will have containment under them. Gasco also will use the line to pump flowback water to the evap disposal facility. The lines will be in use for approx. 60 days. Lines will be monitored regularly for leaks throughout operations.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 29, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jessica Berg	303 996-1805	Regulatory Analyst

SIGNATURE	DATE
N/A	9/22/2014

RECEIVED: Sep. 22, 2014



Approximately 15,938’ from Desert Spring State Evap Facility to Pad in NESE of Section 30-9S-19E

RECEIVED: Sep. 22, 2014

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: utu-37246

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
FEDERAL 332-30-9-19

2. NAME OF OPERATOR:
GASCO PRODUCTION COMPANY

9. API NUMBER:
43047530120000

3. ADDRESS OF OPERATOR:
8 Inverness Dr. East, Suite 100 , Englewood, CO, 80112

PHONE NUMBER:
303 996-1805 Ext

9. FIELD and POOL or WILDCAT:
PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2000 FSL 0659 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 30 Township: 09.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT
  Approximate date work will start:
- ✓ SUBSEQUENT REPORT
  Date of Work Completion:
  12/31/2014
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well was put on production and had first sales at 2:00 PM on 12/31/2014.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 08, 2015

NAME (PLEASE PRINT)
Lindsey J. Cooke

PHONE NUMBER
303 996-1834

TITLE
Production Tech

SIGNATURE
N/A

DATE
1/7/2015

RECEIVED: Jan. 07, 2015

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: utu-37246

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
FEDERAL 332-30-9-19

2. NAME OF OPERATOR:
GASCO PRODUCTION COMPANY

9. API NUMBER:
43047530120000

3. ADDRESS OF OPERATOR:
7979 East Tufts Avenue, Suite 1150 , Denver, CO, 80237

PHONE NUMBER:
303 996-1805 Ext

9. FIELD and POOL or WILDCAT:
PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2000 FSL 0659 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 30 Township: 09.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT
  Approximate date work will start: 12/31/2014
- ☐ SUBSEQUENT REPORT
  Date of Work Completion:
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	✓ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco intends to primarily dispose of produced water at the Desert Spring State Evaporation Facility and the Eight Mile Flat Evaporation Facility owned by Monarch Natural Gas, LLC. Gasco may also utilize the following State approved disposal facilities: Brennan Bottom Disposal, Environmental Energy Innovations, Integrated Water Management, LLC, Iowa Tanklines, Inc., RN Industries, Inc., and Western Water Solutions.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 30, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey J. Cooke	303 996-1834	Production Tech
SIGNATURE		**DATE**
N/A		1/7/2015

RECEIVED: Jan. 07, 2015

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: utu-37246

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
FEDERAL 332-30-9-19

2. NAME OF OPERATOR:
GASCO PRODUCTION COMPANY

9. API NUMBER:
43047530120000

3. ADDRESS OF OPERATOR:
7979 East Tufts Avenue, Suite 1150 , Denver, CO, 80237

PHONE NUMBER:
303 996-1805 Ext

9. FIELD and POOL or WILDCAT:
PARIETTE BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2000 FSL 0659 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 30 Township: 09.0S Range: 19.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 12/31/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Production Facilities & Measu

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco intends to use the following production facilities and measurement methods on the Federal 332-30-9-19, Federal 333-30-9-19, Federal 423-30-9-19 and Federal 442-30-9-19, which share a common pad: Each well will be produced through its own three-phase separator. Gas will be metered through an electronic flow meter, a Total Flow XFCG4, then to a common sales meter. Four 400 bbl tanks will be placed on location - 1 condensate tank and 3 water tanks. Condensate will be manually skimmed from the water tanks into a common sales tank. One water tank will be designated as a test tank which a single well at a time will produce into. Allocations will be based on percentages derived from individual well testing.

REQUEST DENIED
Utah Division of
Oil, Gas and Mining
Date: June 17, 2015
By: Dark K Quist

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey J. Cooke	303 996-1834	Production Tech
SIGNATURE		**DATE**
N/A		1/7/2015

RECEIVED: Jan. 07, 2015

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047530120000

The following requested additional information was not provided, so the sundry is being denied at this time:

I would like to see more definition in the test procedure. When? How often? What is the basis for allocation? Gas or water? An example of the allocation formula would help.

I would like a statement as to whether it is all the same federal lease or not.

RECEIVED: Jun. 17, 2015

Reset Form

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-37246

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: Federal 332-30-9-19

2. NAME OF OPERATOR: Gascp Production Company

9. API NUMBER: 4304753012

3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave, #1150 CITY Denver STATE CO ZIP 80237

PHONE NUMBER: (303) 996-1805

10 FIELD AND POOL, OR WILDCAT: Pariette Bench

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2000 FSL & 659 FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 2160 FSL & 1992 FEL
AT TOTAL DEPTH: 2132 FSL & 1976 FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 30 9S 19E S

12. COUNTY: Uintah

13. STATE: UTAH

14. DATE SPUDDED: 8/4/2014

15. DATE T.D. REACHED: 10/6/2014

16. DATE COMPLETED: 12/31/2014 ABANDONED ☐ READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL): 4810 GL

18. TOTAL DEPTH: MD 11,858 TVD 11,648

19. PLUG BACK T.D.: MD TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? * 1

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
RPM Logs

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE		WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS		SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17.5"	13.375	H-40	48#	0	60		Class G	55		0	
11"	8.625	J-55	32#	0	3,505		15.7#	570		0	
7.875	4.5	P110	13.5#	0	11,848		Prem Li	768		0	
							50/50 P	1,462			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3/8"	11,392							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Wasatch	4,906	9,277	4,906	9,277
(B) Mesaverde	9,277	11,858	9,277	11,648
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
6,752	11,683	.38"	360	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

WAS WELL HYDRAULICALLY FRACTURED? YES ☑ NO ☐ IF YES -- DATE FRACTURED: 12/12/2014

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6752-11683'	See attached Wellbore Schematic

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
☐ GEOLOGIC REPORT
☐ CORE ANALYSIS
☐ DST REPORT
☑ DIRECTIONAL SURVEY
☑ OTHER: Wellbore Schem.

30. WELL STATUS: PGW

(5/2013)

(CONTINUED ON BACK)

RECEIVED: Jun. 29, 2015

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
12/31/2014		1/12/2015		24			18	1,064	771	Flowing
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
18		1,662	48.00	1,173	59		18	1,064	771	Producing

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.
Wasatch	4,906	9,277	
Mesaverde	9,277	11,858	TD'd within the Mesaverde

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Wasatch	5,468
Mesaverde	9,547

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Jessica Berg TITLE Regulatory Analyst

SIGNATURE DATE 3/26/2015

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2013)

RECEIVED: Jun. 29, 2015

As of 11/6/2014

LEASE: UTU 37246 **WELL #:** FED 332-30-9-19

FIELD: Riverbend

LOCATION: SL: 2000' FSL & 659' FEL NESE BHL: 2132' FSL &1976' FEL NWSE

COUNTY: Uintah **ST:** Utah **API:** 43-047-53012

GL:	4810
SPUD DATE:	9/30/2014
COMP DATE:	12/31/2014
FIRST GAS	12/31/2014

CONDUCTOR

SIZE:	13 3/8"
WT/GRD:	H-40
WT/GRD:	48#
CSA:	60'
SX:	55 sx Class G
CIRC:	Y
TOC:	Surf
HOLE SIZE:	17 1/2"

SURFACE CASING

SIZE:	8 5/8"
WT/GRD:	J-55
WT/GRD:	32#
CSA:	3,505
SX:	570 sx 11.5#-15.7#
CIRC:	Y
TOC:	Surf
HOLE SIZE:	11"

PRODUCTION CASING

SIZE:	4 1/2"
WT/GRD:	P110
WT/GRD:	13.5#
CSA:	11,848
SX:	768 sx Premium Lift
	1462 sx 50/50 Poz G
CIRC:	Yes
TOC:	Surface
HOLE SIZE:	7 7/8"

DATE FIRST PRODUCED	12/31/14
PRODUCTION METHOD	flowing
CHOKE SIZE	16
Csg PRESSURE	2146

Tbg Record: Land tbg @ 11,392.2' (KB 24'), w/354 jnts 2 3/8" EUE 8rnd 4.7# P-110 tbg

Stimulation

Stage 11: 12/19/2014	Fraced w/ 96,000# 20-40 premium white sd using 3791 bbls of produced FR slick water	**Stage 11** 6752-6992	24 total shots	Wasatch
Stage 10: 12/19/2014	Fraced w/ 108,100# 20-40 premium white sd using 4422 bbls of produced FR slick water	**Stage 10** 7338-7623	30 total shots	Wasatch
Stage 9: 12/19/2014	Fraced w/ 118,100# 20-40 premium white sd using 5140 bbls of produced FR slick water	**Stage 9** 8086-8420	33 total shots	Wasatch
Stage 8: 12/18/2014	Fraced w/ 72,000# 20-40 premium white sd using 3255 bbls of produced FR slick water	**Stage 8** 8578-8935	30 total shots	Wasatch
Stage 7: 12/16/2014	Fraced w/ 144,100# 20-40 premium white sd using 5830 bbls of produced FR slick water	**Stage 7** 9006-9437	36 total shots	Upper Mesaverde/DC/Wasatch
Stage 6: 12/16/2014	Fraced w/ 120,100# 20-40 premium white sd using 5059 bbls of produced FR slick water	**Stage 6** 9502-9886	33 total shots	Upper Mesaverde
Stage 5: 12/15/2014	Fraced w/ 130,100# 20-40 premium white sd using 5608 bbls of produced FR slick water	**Stage 5** 9959-10338	36 total shots	Upper Mesaverde
Stage 4: 12/14/2014	Fraced w/ 180,000# 20-40 premium white sd using 7299 bbls of produced FR slick water	**Stage 4** 10386-10831	39 total shots	Upper Mesaverde
Stage 3: 12/13/2014	Fraced w/ 132,100# 20-40 premium white sd using 5088 bbls of produced FR slick water	**Stage 3** 10872-11104	33 total shots	Lower Mesaverde
Stage 2: 12/12/2014	Fraced w/ 132,300# 20-40 premium white sd using 5608 bbls of produced FR slick water	**Stage 2** 11162-11383	33 total shots	Lower Mesaverde
Stage 1: 12/12/2014	Fraced w/ 143,900# 20-40 premium white sd using 5064 bbls of produced FR slick water	**Stage 1** 11420-11683	33 total shots	Lower Mesaverde

MD 11,858
TVD 11,648

	Stage 5	Top	Bottom	ft	holes
UMV		9959	9960	1	3
		9978	9979	1	3
		9996	9997	1	3
		10026	10027	1	3
		10045	10046	1	3
		10081	10082	1	3
		10110	10111	1	3
		10199	10200	1	3
		10239	10240	1	3
		10252	10253	1	3
		10307	10308	1	3
		10337	10338	1	3
				12	36

	Stage 4	Top	Bottom	ft	holes
UMV		10386	10387	1	3
		10402	10403	1	3
		10416	10417	1	3
		10460	10461	1	3
		10518	10519	1	3
		10540	10541	1	3
		11562	10563	1	3
		10601	10602	1	3
		10623	10624	1	3
		10674	10675	1	3
		10776	10777	1	3
		10803	10804	1	3
		10830	10831	1	3
				13	39

	Stage 3	Top	Bottom	ft	holes
LMV		10872	10873	1	3
		10897	10898	1	3
		10916	10917	1	3
		10947	10948	1	3
		10956	10957	1	3
		11000	11001	1	3
		11011	11012	1	3
		11041	11042	1	3
		11078	11079	1	3
		11086	11087	1	3
		11103	11104	1	3
				11	33

	Stage 2	Top	Bottom	ft	holes
LMV		11162	11163	1	3
		11169	11170	1	3
		11184	11185	1	3
		11224	11225	1	3
		11252	11253	1	3
		11264	11265	1	3
		11286	11287	1	3
		11300	11301	1	3
		11340	11341	1	3
		11352	11353	1	3
		11382	11383	1	3
				11	33

	Stage 1	Top	Bottom	ft	holes
LMV		11420	11421	1	3
		11433	11434	1	3
		11474	11475	1	3
		11524	11525	1	3
		11541	11542	1	3
		11580	11581	1	3
		11592	11593	1	3
		11629	11630	1	3
		11651	11652	1	3
		11672	11673	1	3
		11682	11683	1	3
				11	33

	Stage 6	Top	Bottom	ft	holes
UMV		9502	9503	1	3
		9512	9513	1	3
		9556	9557	1	3
		9642	9643	1	3
		9660	9661	1	3
		9740	9741	1	3
		9793	9794	1	3
		9806	9807	1	3
		9840	9841	1	3
		9884	9886	2	6
				11	33

	Stage 7	Top	Bottom	ft	holes
V DC Was		9006	9007	1	3
		9036	9037	1	3
		9088	9089	1	3
		9109	9110	1	3
		9248	9249	1	3
		9266	9267	1	3
		9290	9291	1	3
		9304	9305	1	3
		9341	9342	1	3
		9363	9364	1	3
		9412	9413	1	3
		9436	9437	1	3
				12	36

	Stage 8	Top	Bottom	ft	holes
Wasatch		8578	8579	1	3
		8609	8610	1	3
		8627	8628	1	3
		8660	8661	1	3
		8685	8686	1	3
		8703	8704	1	3
		8749	8750	1	3
		8799	8800	1	3
		8887	8888	1	3
		8934	8935	1	3
				10	30

	Stage 9	Top	Bottom	ft	holes
Wasatch		8086	8087	1	3
		8146	8147	1	3
		8159	8160	1	3
		8200	8201	1	3
		8206	8207	1	3
		8234	8235	1	3
		8249	8250	1	3
		8339	8340	1	3
		8370	8371	1	3
		8378	8379	1	3
		8419	8420	1	3
				11	33

	Stage 10	Top	Bottom	ft	holes
Wasatch		7338	7339	1	3
		7344	7345	1	3
		7360	7361	1	3
		7375	7376	1	3
		7386	7387	1	3
		7395	7396	1	3
		7440	7441	1	3
		7520	7521	1	3
		7612	7613	1	3
		7622	7623	1	3
				10	30

	Stage 11	Top	Bottom	ft	holes
Wasatch		6752	6753	1	3
		6773	6774	1	3
		6800	6801	1	3
		6813	6814	1	3
		6859	6860	1	3
		6979	6980	1	3
		6990	6992	2	6
				8	24

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Scientific Drilling

Directional Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	Gasco Energy
Well Name & No.	Federal 332-30-9-19
County & State	Uintah County, UT
SDI Job No.	420914DEF203927
Rig	SST 54

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 0 feet to a measured depth of 11,858 feet is true and correct as determined from all available records.

Signature

8-Oct-14
Date

Janie Collins
Colorado District Well Planner
Scientific Drilling International

Survey Report - Geographic

Scientific Drilling

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19 - Slot B
Project:	Uintah County, UT NAD27	**TVD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Site:	Federal 30-9S-19E	**MD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Project Uintah County, UT NAD27

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Federal 30-9S-19E

Site Position:		**Northing:**	611,489.37 usft	**Latitude:**	40° 0' 0.000 N
From:	Lat/Long	**Easting:**	2,471,903.54 usft	**Longitude:**	109° 48' 55.411 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.08 °

Well Federal #332-30-9-19 - Slot B

Well Position	**+N/-S**	0.00 ft	**Northing:**	611,550.18 usft	**Latitude:**	40° 0' 0.601 N
	+E/-W	0.00 ft	**Easting:**	2,471,902.40 usft	**Longitude:**	109° 48' 55.411 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	0.00 ft	**Ground Level:**	4,810.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2014	8/28/2014	10.92	65.72	51,857

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	276.30

Survey Program **Date** 10/8/2014

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
154.00	3,486.00	Survey #1 - Surface MWD (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1
3,535.00	11,858.00	Survey #2 - Production MWD Survey (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Map Northing (usft)**	**Map Easting (usft)**	**Latitude**	**Longitude**
0.00	0.00	0.00	0.00	0.00	0.00	611,550.18	2,471,902.40	40° 0' 0.601 N	109° 48' 55.411 W
154.00	0.84	282.72	153.99	0.25	-1.10	611,550.41	2,471,901.29	40° 0' 0.604 N	109° 48' 55.425 W
First SDI Surface MWD Survey									
210.00	0.84	273.69	209.99	0.37	-1.91	611,550.51	2,471,900.48	40° 0' 0.605 N	109° 48' 55.436 W
289.00	0.79	262.82	288.98	0.33	-3.03	611,550.46	2,471,899.36	40° 0' 0.604 N	109° 48' 55.450 W
376.00	0.88	257.37	375.97	0.11	-4.28	611,550.22	2,471,898.12	40° 0' 0.602 N	109° 48' 55.466 W
466.00	0.80	270.91	465.96	-0.03	-5.58	611,550.05	2,471,896.82	40° 0' 0.601 N	109° 48' 55.483 W
556.00	2.64	294.63	555.92	0.85	-8.09	611,550.88	2,471,894.29	40° 0' 0.609 N	109° 48' 55.515 W
646.00	4.40	291.73	645.74	2.99	-13.18	611,552.92	2,471,889.16	40° 0' 0.631 N	109° 48' 55.581 W
736.00	6.60	285.67	735.33	5.66	-21.37	611,555.44	2,471,880.92	40° 0' 0.657 N	109° 48' 55.686 W
826.00	8.27	284.96	824.57	8.73	-32.61	611,558.30	2,471,869.63	40° 0' 0.687 N	109° 48' 55.830 W

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Survey Report - Geographic

Scientific Drilling

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19 - Slot B
Project:	Uintah County, UT NAD27	**TVD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Site:	Federal 30-9S-19E	**MD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
916.00	10.20	278.20	913.40	11.54	-46.75	611,560.84	2,471,855.44	40° 0' 0.715 N	109° 48' 56.012 W
1,006.00	11.71	276.72	1,001.76	13.75	-63.71	611,562.73	2,471,838.44	40° 0' 0.737 N	109° 48' 56.230 W
1,096.00	13.72	274.68	1,089.54	15.69	-83.42	611,564.29	2,471,818.70	40° 0' 0.756 N	109° 48' 56.483 W
1,186.00	15.74	273.36	1,176.58	17.27	-106.24	611,565.45	2,471,795.85	40° 0' 0.772 N	109° 48' 56.777 W
1,276.00	17.15	272.40	1,262.90	18.54	-131.69	611,566.24	2,471,770.38	40° 0' 0.784 N	109° 48' 57.103 W
1,366.00	18.82	273.36	1,348.50	19.95	-159.44	611,567.13	2,471,742.61	40° 0' 0.798 N	109° 48' 57.460 W
1,456.00	19.52	273.10	1,433.51	21.61	-188.95	611,568.23	2,471,713.08	40° 0' 0.815 N	109° 48' 57.839 W
1,546.00	20.40	275.12	1,518.10	23.83	-219.58	611,569.87	2,471,682.40	40° 0' 0.837 N	109° 48' 58.233 W
1,636.00	20.66	275.12	1,602.38	26.64	-251.02	611,572.09	2,471,650.92	40° 0' 0.864 N	109° 48' 58.637 W
1,726.00	21.10	275.12	1,686.47	29.51	-282.97	611,574.35	2,471,618.92	40° 0' 0.893 N	109° 48' 59.048 W
1,816.00	20.93	274.24	1,770.49	32.14	-315.14	611,576.38	2,471,586.71	40° 0' 0.919 N	109° 48' 59.461 W
1,906.00	19.96	274.77	1,854.82	34.61	-346.48	611,578.26	2,471,555.33	40° 0' 0.943 N	109° 48' 59.864 W
1,996.00	20.36	277.19	1,939.31	37.84	-377.32	611,580.91	2,471,524.43	40° 0' 0.975 N	109° 49' 0.260 W
2,086.00	20.49	278.46	2,023.65	42.12	-408.43	611,584.60	2,471,493.24	40° 0' 1.017 N	109° 49' 0.660 W
2,176.00	20.49	274.51	2,107.96	45.68	-439.72	611,587.57	2,471,461.90	40° 0' 1.052 N	109° 49' 1.062 W
2,266.00	19.08	275.38	2,192.64	48.29	-470.07	611,589.62	2,471,431.50	40° 0' 1.078 N	109° 49' 1.452 W
2,356.00	18.99	277.14	2,277.72	51.49	-499.24	611,592.27	2,471,402.27	40° 0' 1.110 N	109° 49' 1.827 W
2,446.00	19.90	277.91	2,362.59	55.42	-528.94	611,595.63	2,471,372.50	40° 0' 1.149 N	109° 49' 2.208 W
2,536.00	21.28	278.46	2,446.84	59.93	-560.27	611,599.55	2,471,341.10	40° 0' 1.193 N	109° 49' 2.611 W
2,626.00	21.02	278.02	2,530.77	64.59	-592.41	611,603.60	2,471,308.88	40° 0' 1.239 N	109° 49' 3.024 W
2,716.00	20.93	277.93	2,614.81	69.06	-624.31	611,607.47	2,471,276.89	40° 0' 1.284 N	109° 49' 3.434 W
2,806.00	21.19	276.35	2,698.80	73.07	-656.40	611,610.88	2,471,244.74	40° 0' 1.323 N	109° 49' 3.846 W
2,896.00	19.33	274.87	2,783.23	76.14	-687.41	611,613.36	2,471,213.67	40° 0' 1.354 N	109° 49' 4.245 W
2,986.00	19.52	274.51	2,868.11	78.58	-717.24	611,615.25	2,471,183.80	40° 0' 1.378 N	109° 49' 4.628 W
3,076.00	19.77	275.67	2,952.87	81.27	-747.38	611,617.36	2,471,153.62	40° 0' 1.404 N	109° 49' 5.016 W
3,166.00	19.87	276.18	3,037.54	84.42	-777.73	611,619.94	2,471,123.21	40° 0' 1.435 N	109° 49' 5.406 W
3,256.00	19.79	275.65	3,122.20	87.57	-808.10	611,622.52	2,471,092.79	40° 0' 1.466 N	109° 49' 5.796 W
3,346.00	19.85	276.37	3,206.87	90.76	-838.45	611,625.14	2,471,062.39	40° 0' 1.498 N	109° 49' 6.186 W
3,436.00	20.14	278.29	3,291.44	94.69	-868.97	611,628.49	2,471,031.80	40° 0' 1.537 N	109° 49' 6.578 W
3,486.00	20.40	277.93	3,338.35	97.14	-886.11	611,630.61	2,471,014.61	40° 0' 1.561 N	109° 49' 6.798 W
Last SDI Surface MWD Survey									
3,535.00	20.58	277.49	3,384.25	99.44	-903.11	611,632.59	2,470,997.57	40° 0' 1.584 N	109° 49' 7.017 W
First SDI Production MWD Survey									
3,627.00	20.05	274.86	3,470.53	102.88	-934.86	611,635.44	2,470,965.77	40° 0' 1.618 N	109° 49' 7.425 W
3,723.00	19.52	274.42	3,560.86	105.51	-967.25	611,637.46	2,470,933.33	40° 0' 1.644 N	109° 49' 7.841 W
3,818.00	17.67	275.65	3,650.90	108.15	-997.42	611,639.53	2,470,903.12	40° 0' 1.670 N	109° 49' 8.229 W
3,912.00	18.29	275.91	3,740.30	111.08	-1,026.29	611,641.91	2,470,874.20	40° 0' 1.699 N	109° 49' 8.600 W
4,008.00	18.06	277.50	3,831.52	114.57	-1,056.03	611,644.84	2,470,844.40	40° 0' 1.733 N	109° 49' 8.982 W
4,103.00	18.55	279.43	3,921.71	118.97	-1,085.53	611,648.69	2,470,814.82	40° 0' 1.777 N	109° 49' 9.361 W
4,198.00	18.64	277.93	4,011.75	123.54	-1,115.48	611,652.69	2,470,784.79	40° 0' 1.822 N	109° 49' 9.746 W
4,294.00	17.67	276.44	4,102.97	127.29	-1,145.15	611,655.88	2,470,755.05	40° 0' 1.859 N	109° 49' 10.127 W
4,389.00	15.21	274.24	4,194.08	129.83	-1,171.91	611,657.92	2,470,728.25	40° 0' 1.884 N	109° 49' 10.471 W
4,484.00	13.54	273.01	4,286.10	131.33	-1,195.45	611,658.98	2,470,704.69	40° 0' 1.899 N	109° 49' 10.773 W
4,579.00	12.68	272.24	4,378.63	132.33	-1,216.97	611,659.57	2,470,683.15	40° 0' 1.909 N	109° 49' 11.050 W
4,675.00	11.09	273.33	4,472.57	133.27	-1,236.72	611,660.14	2,470,663.39	40° 0' 1.918 N	109° 49' 11.304 W
4,770.00	9.94	282.41	4,565.98	135.57	-1,253.85	611,662.11	2,470,646.22	40° 0' 1.941 N	109° 49' 11.524 W
4,865.00	8.36	283.53	4,659.76	138.94	-1,268.57	611,665.21	2,470,631.43	40° 0' 1.974 N	109° 49' 11.713 W
4,961.00	8.27	281.27	4,754.75	141.93	-1,282.13	611,667.94	2,470,617.82	40° 0' 2.003 N	109° 49' 11.887 W
5,056.00	7.39	275.31	4,848.87	143.83	-1,294.91	611,669.60	2,470,605.01	40° 0' 2.022 N	109° 49' 12.052 W
5,151.00	5.28	283.56	4,943.29	145.42	-1,305.25	611,670.99	2,470,594.64	40° 0' 2.038 N	109° 49' 12.184 W
5,245.00	4.22	286.90	5,036.96	147.44	-1,312.76	611,672.87	2,470,587.09	40° 0' 2.058 N	109° 49' 12.281 W
5,340.00	3.43	279.95	5,131.75	148.94	-1,318.90	611,674.26	2,470,580.92	40° 0' 2.073 N	109° 49' 12.360 W
5,435.00	2.29	303.51	5,226.63	150.48	-1,323.29	611,675.72	2,470,576.51	40° 0' 2.088 N	109° 49' 12.416 W
5,529.00	1.58	316.16	5,320.58	152.45	-1,325.75	611,677.64	2,470,574.01	40° 0' 2.108 N	109° 49' 12.448 W
5,624.00	1.58	315.29	5,415.54	154.33	-1,327.58	611,679.48	2,470,572.15	40° 0' 2.126 N	109° 49' 12.471 W

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Survey Report - Geographic

Scientific Drilling

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19 - Slot B
Project:	Uintah County, UT NAD27	**TVD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Site:	Federal 30-9S-19E	**MD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,721.00	1.32	38.25	5,512.52	156.16	-1,327.83	611,681.31	2,470,571.87	40° 0' 2.144 N	109° 49' 12.475 W
5,817.00	0.72	56.78	5,608.51	157.36	-1,326.64	611,682.53	2,470,573.03	40° 0' 2.156 N	109° 49' 12.459 W
5,912.00	0.35	59.26	5,703.50	157.83	-1,325.89	611,683.02	2,470,573.77	40° 0' 2.161 N	109° 49' 12.450 W
6,005.00	0.62	131.07	5,796.50	157.65	-1,325.27	611,682.84	2,470,574.40	40° 0' 2.159 N	109° 49' 12.442 W
6,100.00	0.88	305.18	5,891.50	157.73	-1,325.47	611,682.92	2,470,574.19	40° 0' 2.160 N	109° 49' 12.444 W
6,194.00	0.88	285.84	5,985.49	158.34	-1,326.76	611,683.51	2,470,572.89	40° 0' 2.166 N	109° 49' 12.461 W
6,289.00	0.79	261.67	6,080.48	158.45	-1,328.11	611,683.59	2,470,571.54	40° 0' 2.167 N	109° 49' 12.478 W
6,383.00	0.75	242.04	6,174.47	158.06	-1,329.29	611,683.19	2,470,570.36	40° 0' 2.163 N	109° 49' 12.494 W
6,479.00	0.88	218.43	6,270.46	157.19	-1,330.31	611,682.29	2,470,569.37	40° 0' 2.154 N	109° 49' 12.507 W
6,573.00	1.28	330.15	6,364.45	157.54	-1,331.28	611,682.62	2,470,568.39	40° 0' 2.158 N	109° 49' 12.519 W
6,670.00	1.01	320.40	6,461.43	159.14	-1,332.36	611,684.20	2,470,567.28	40° 0' 2.174 N	109° 49' 12.533 W
6,765.00	0.79	320.38	6,556.42	160.29	-1,333.31	611,685.33	2,470,566.30	40° 0' 2.185 N	109° 49' 12.545 W
6,860.00	0.36	311.65	6,651.41	160.99	-1,333.95	611,686.02	2,470,565.65	40° 0' 2.192 N	109° 49' 12.553 W
6,954.00	0.09	250.86	6,745.41	161.16	-1,334.24	611,686.19	2,470,565.36	40° 0' 2.194 N	109° 49' 12.557 W
7,049.00	0.18	166.66	6,840.41	160.99	-1,334.28	611,686.02	2,470,565.32	40° 0' 2.192 N	109° 49' 12.558 W
7,147.00	0.53	177.21	6,938.41	160.39	-1,334.22	611,685.42	2,470,565.39	40° 0' 2.186 N	109° 49' 12.557 W
7,241.00	0.95	167.90	7,032.40	159.19	-1,334.04	611,684.22	2,470,565.60	40° 0' 2.174 N	109° 49' 12.555 W
7,336.00	1.14	160.77	7,127.39	157.53	-1,333.56	611,682.57	2,470,566.11	40° 0' 2.158 N	109° 49' 12.548 W
7,428.00	0.44	12.59	7,219.38	157.01	-1,333.18	611,682.06	2,470,566.49	40° 0' 2.153 N	109° 49' 12.544 W
7,527.00	0.07	111.67	7,318.38	157.36	-1,333.04	611,682.41	2,470,566.63	40° 0' 2.156 N	109° 49' 12.542 W
7,622.00	0.53	173.61	7,413.38	156.90	-1,332.94	611,681.95	2,470,566.74	40° 0' 2.151 N	109° 49' 12.540 W
7,717.00	0.97	171.85	7,508.37	155.67	-1,332.78	611,680.72	2,470,566.92	40° 0' 2.139 N	109° 49' 12.538 W
7,812.00	0.76	74.17	7,603.36	155.04	-1,332.06	611,680.11	2,470,567.66	40° 0' 2.133 N	109° 49' 12.529 W
7,907.00	0.62	80.62	7,698.36	155.30	-1,330.95	611,680.39	2,470,568.76	40° 0' 2.136 N	109° 49' 12.515 W
8,003.00	0.60	120.78	7,794.35	155.13	-1,330.00	611,680.24	2,470,569.71	40° 0' 2.134 N	109° 49' 12.503 W
8,096.00	0.70	147.33	7,887.34	154.40	-1,329.28	611,679.52	2,470,570.45	40° 0' 2.127 N	109° 49' 12.493 W
8,191.00	0.88	25.60	7,982.34	154.57	-1,328.65	611,679.70	2,470,571.08	40° 0' 2.128 N	109° 49' 12.485 W
8,285.00	0.62	40.01	8,076.33	155.61	-1,328.01	611,680.76	2,470,571.69	40° 0' 2.139 N	109° 49' 12.477 W
8,379.00	0.44	80.53	8,170.33	156.06	-1,327.33	611,681.22	2,470,572.37	40° 0' 2.143 N	109° 49' 12.468 W
8,475.00	0.50	105.43	8,266.33	156.01	-1,326.56	611,681.18	2,470,573.14	40° 0' 2.143 N	109° 49' 12.458 W
8,570.00	0.53	14.96	8,361.32	156.32	-1,326.05	611,681.50	2,470,573.64	40° 0' 2.146 N	109° 49' 12.452 W
8,664.00	0.44	15.84	8,455.32	157.09	-1,325.83	611,682.28	2,470,573.84	40° 0' 2.153 N	109° 49' 12.449 W
8,760.00	0.24	35.54	8,551.32	157.61	-1,325.62	611,682.80	2,470,574.05	40° 0' 2.158 N	109° 49' 12.446 W
8,855.00	0.26	150.67	8,646.32	157.58	-1,325.40	611,682.78	2,470,574.27	40° 0' 2.158 N	109° 49' 12.443 W
8,950.00	0.62	169.56	8,741.31	156.89	-1,325.20	611,682.09	2,470,574.48	40° 0' 2.151 N	109° 49' 12.441 W
9,044.00	0.88	157.26	8,835.31	155.72	-1,324.83	611,680.93	2,470,574.87	40° 0' 2.140 N	109° 49' 12.436 W
9,139.00	0.62	81.91	8,930.30	155.12	-1,324.03	611,680.34	2,470,575.68	40° 0' 2.134 N	109° 49' 12.426 W
9,232.00	0.84	350.64	9,023.29	155.87	-1,323.65	611,681.09	2,470,576.05	40° 0' 2.141 N	109° 49' 12.421 W
9,328.00	0.80	4.68	9,119.29	157.23	-1,323.71	611,682.45	2,470,575.96	40° 0' 2.155 N	109° 49' 12.422 W
9,423.00	0.62	336.91	9,214.28	158.36	-1,323.85	611,683.58	2,470,575.80	40° 0' 2.166 N	109° 49' 12.424 W
9,518.00	0.70	340.07	9,309.27	159.38	-1,324.25	611,684.59	2,470,575.38	40° 0' 2.176 N	109° 49' 12.429 W
9,612.00	0.62	310.71	9,403.27	160.25	-1,324.84	611,685.46	2,470,574.78	40° 0' 2.185 N	109° 49' 12.436 W
9,708.00	0.62	297.27	9,499.26	160.83	-1,325.69	611,686.02	2,470,573.91	40° 0' 2.190 N	109° 49' 12.447 W
9,805.00	1.06	345.78	9,596.25	161.94	-1,326.38	611,687.11	2,470,573.21	40° 0' 2.201 N	109° 49' 12.456 W
9,900.00	0.88	331.02	9,691.24	163.43	-1,326.95	611,688.59	2,470,572.61	40° 0' 2.216 N	109° 49' 12.463 W
9,995.00	0.79	314.76	9,786.23	164.53	-1,327.77	611,689.68	2,470,571.77	40° 0' 2.227 N	109° 49' 12.474 W
10,091.00	0.62	271.16	9,882.22	165.00	-1,328.75	611,690.13	2,470,570.77	40° 0' 2.232 N	109° 49' 12.487 W
10,187.00	0.52	220.08	9,978.22	164.68	-1,329.55	611,689.80	2,470,569.98	40° 0' 2.228 N	109° 49' 12.497 W
10,283.00	0.53	222.82	10,074.21	164.02	-1,330.14	611,689.13	2,470,569.41	40° 0' 2.222 N	109° 49' 12.504 W
10,378.00	0.53	203.49	10,169.21	163.30	-1,330.61	611,688.39	2,470,568.95	40° 0' 2.215 N	109° 49' 12.510 W
10,473.00	1.04	183.37	10,264.20	162.03	-1,330.84	611,687.12	2,470,568.75	40° 0' 2.202 N	109° 49' 12.513 W
10,568.00	0.62	142.67	10,359.19	160.76	-1,330.58	611,685.86	2,470,569.03	40° 0' 2.190 N	109° 49' 12.510 W
10,662.00	0.62	117.09	10,453.18	160.13	-1,329.81	611,685.24	2,470,569.80	40° 0' 2.183 N	109° 49' 12.500 W
10,760.00	0.88	171.32	10,551.18	159.14	-1,329.23	611,684.26	2,470,570.41	40° 0' 2.174 N	109° 49' 12.493 W
10,859.00	1.19	165.85	10,650.16	157.39	-1,328.86	611,682.52	2,470,570.81	40° 0' 2.156 N	109° 49' 12.488 W

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Survey Report - Geographic

Scientific Drilling

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19 - Slot B
Project:	Uintah County, UT NAD27	**TVD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Site:	Federal 30-9S-19E	**MD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,947.00	1.14	159.46	10,738.14	155.69	-1,328.33	611,680.83	2,470,571.37	40° 0' 2.139 N	109° 49' 12.481 W
11,043.00	1.32	145.58	10,834.12	153.88	-1,327.37	611,679.04	2,470,572.36	40° 0' 2.122 N	109° 49' 12.469 W
11,138.00	1.41	142.14	10,929.09	152.06	-1,326.04	611,677.24	2,470,573.73	40° 0' 2.104 N	109° 49' 12.452 W
11,234.00	1.58	160.77	11,025.06	149.87	-1,324.88	611,675.08	2,470,574.94	40° 0' 2.082 N	109° 49' 12.437 W
11,328.00	1.67	164.20	11,119.02	147.33	-1,324.08	611,672.55	2,470,575.78	40° 0' 2.057 N	109° 49' 12.426 W
11,426.00	1.67	163.32	11,216.98	144.59	-1,323.28	611,669.83	2,470,576.63	40° 0' 2.030 N	109° 49' 12.416 W
11,521.00	1.85	158.00	11,311.94	141.84	-1,322.30	611,667.10	2,470,577.66	40° 0' 2.003 N	109° 49' 12.404 W
11,615.00	1.92	149.91	11,405.89	139.07	-1,320.95	611,664.35	2,470,579.07	40° 0' 1.975 N	109° 49' 12.386 W
11,710.00	1.85	151.63	11,500.84	136.35	-1,319.42	611,661.66	2,470,580.64	40° 0' 1.948 N	109° 49' 12.367 W
11,799.00	2.11	158.58	11,589.78	133.56	-1,318.14	611,658.89	2,470,581.98	40° 0' 1.921 N	109° 49' 12.350 W
Last SDI Production MWD Survey									
11,858.00	2.11	158.58	11,648.74	131.54	-1,317.35	611,656.89	2,470,582.81	40° 0' 1.901 N	109° 49' 12.340 W
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
154.00	153.99	0.25	-1.10	First SDI Surface MWD Survey
3,486.00	3,338.35	97.14	-886.11	Last SDI Surface MWD Survey
3,535.00	3,384.25	99.44	-903.11	First SDI Production MWD Survey
11,799.00	11,589.78	133.56	-1,318.14	Last SDI Production MWD Survey
11,858.00	11,648.74	131.54	-1,317.35	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

RECEIVED: Jun. 29, 2015

Reset Form

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-37246

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: Federal 332-30-9-19

2. NAME OF OPERATOR: Gascp Production Company

9. API NUMBER: 4304753012

3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave, #1150 CITY Denver STATE CO ZIP 80237

PHONE NUMBER: (303) 996-1805

10 FIELD AND POOL, OR WILDCAT: Pariette Bench

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2000 FSL & 659 FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 2160 FSL & 1992 FEL
AT TOTAL DEPTH: 2132 FSL & 1976 FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 30 9S 19E S

12. COUNTY: Uintah

13. STATE: UTAH

14. DATE SPUDDED: 8/4/2014

15. DATE T.D. REACHED: 10/6/2014

16. DATE COMPLETED: 12/31/2014 ABANDONED ☐ READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL): 4810 GL

18. TOTAL DEPTH: MD 11,858 TVD 11,648

19. PLUG BACK T.D.: MD TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? * 1

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
RPM Logs

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE		WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS		SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17.5"	13.375	H-40	48#	0	60		Class G	55		0	
11"	8.625	J-55	32#	0	3,505		15.7#	570		0	
7.875	4.5	P110	13.5#	0	11,848		Prem Li	768		0	
							50/50 P	1,462			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3/8"	11,392							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Wasatch	4,906	9,277	4,906	9,277
(B) Mesaverde	9,277	11,858	9,277	11,648
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
6,752	11,683	.38"	360	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

WAS WELL HYDRAULICALLY FRACTURED? YES ☑ NO ☐ IF YES -- DATE FRACTURED: 12/12/2014

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6752-11683'	See attached Wellbore Schematic

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
☐ GEOLOGIC REPORT
☐ CORE ANALYSIS
☐ DST REPORT
☑ DIRECTIONAL SURVEY
☑ OTHER: Wellbore Schem.

30. WELL STATUS: PGW

(5/2013)

(CONTINUED ON BACK)

RECEIVED: Jun. 29, 2015

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
12/31/2014		1/12/2015		24			18	1,064	771	Flowing
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
18		1,662	48.00	1,173	59		18	1,064	771	Producing

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.
Wasatch	4,906	9,277	
Mesaverde	9,277	11,858	TD'd within the Mesaverde

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Wasatch	5,468
Mesaverde	9,547

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Jessica Berg TITLE Regulatory Analyst

SIGNATURE DATE 3/26/2015

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2013)

RECEIVED: Jun. 29, 2015

As of 11/6/2014

LEASE: UTU 37246 **WELL #:** FED 332-30-9-19

FIELD: Riverbend

LOCATION: SL: 2000' FSL & 659' FEL NESE BHL: 2132' FSL &1976' FEL NWSE

COUNTY: Uintah **ST:** Utah **API:** 43-047-53012

GL:	4810
SPUD DATE:	9/30/2014
COMP DATE:	12/31/2014
FIRST GAS	12/31/2014

CONDUCTOR

SIZE:	13 3/8"
WT/GRD:	H-40
WT/GRD:	48#
CSA:	60'
SX:	55 sx Class G
CIRC:	Y
TOC:	Surf
HOLE SIZE:	17 1/2"

SURFACE CASING

SIZE:	8 5/8"
WT/GRD:	J-55
WT/GRD:	32#
CSA:	3,505
SX:	570 sx 11.5#-15.7#
CIRC:	Y
TOC:	Surf
HOLE SIZE:	11"

PRODUCTION CASING

SIZE:	4 1/2"
WT/GRD:	P110
WT/GRD:	13.5#
CSA:	11,848
SX:	768 sx Premium Lift
	1462 sx 50/50 Poz G
CIRC:	Yes
TOC:	Surface
HOLE SIZE:	7 7/8"

DATE FIRST PRODUCED	12/31/14
PRODUCTION METHOD	flowing
CHOKE SIZE	16
Csg PRESSURE	2146

Tbg Record: Land tbg @ 11,392.2' (KB 24'), w/354 jnts 2 3/8" EUE 8rnd 4.7# P-110 tbg

Stimulation

Stage 11: 12/19/2014	Fraced w/ 96,000# 20-40 premium white sd using 3791 bbls of produced FR slick water	**Stage 11** 6752-6992	24 total shots	Wasatch
Stage 10: 12/19/2014	Fraced w/ 108,100# 20-40 premium white sd using 4422 bbls of produced FR slick water	**Stage 10** 7338-7623	30 total shots	Wasatch
Stage 9: 12/19/2014	Fraced w/ 118,100# 20-40 premium white sd using 5140 bbls of produced FR slick water	**Stage 9** 8086-8420	33 total shots	Wasatch
Stage 8: 12/18/2014	Fraced w/ 72,000# 20-40 premium white sd using 3255 bbls of produced FR slick water	**Stage 8** 8578-8935	30 total shots	Wasatch
Stage 7: 12/16/2014	Fraced w/ 144,100# 20-40 premium white sd using 5830 bbls of produced FR slick water	**Stage 7** 9006-9437	36 total shots	Upper Mesaverde/DC/Wasatch
Stage 6: 12/16/2014	Fraced w/ 120,100# 20-40 premium white sd using 5059 bbls of produced FR slick water	**Stage 6** 9502-9886	33 total shots	Upper Mesaverde
Stage 5: 12/15/2014	Fraced w/ 130,100# 20-40 premium white sd using 5608 bbls of produced FR slick water	**Stage 5** 9959-10338	36 total shots	Upper Mesaverde
Stage 4: 12/14/2014	Fraced w/ 180,000# 20-40 premium white sd using 7299 bbls of produced FR slick water	**Stage 4** 10386-10831	39 total shots	Upper Mesaverde
Stage 3: 12/13/2014	Fraced w/ 132,100# 20-40 premium white sd using 5088 bbls of produced FR slick water	**Stage 3** 10872-11104	33 total shots	Lower Mesaverde
Stage 2: 12/12/2014	Fraced w/ 132,300# 20-40 premium white sd using 5608 bbls of produced FR slick water	**Stage 2** 11162-11383	33 total shots	Lower Mesaverde
Stage 1: 12/12/2014	Fraced w/ 143,900# 20-40 premium white sd using 5064 bbls of produced FR slick water	**Stage 1** 11420-11683	33 total shots	Lower Mesaverde

MD 11,858
TVD 11,648

	Stage 5	Top	Bottom	ft	holes
UMV		9959	9960	1	3
		9978	9979	1	3
		9996	9997	1	3
		10026	10027	1	3
		10045	10046	1	3
		10081	10082	1	3
		10110	10111	1	3
		10199	10200	1	3
		10239	10240	1	3
		10252	10253	1	3
		10307	10308	1	3
		10337	10338	1	3
				12	36

	Stage 4	Top	Bottom	ft	holes
UMV		10386	10387	1	3
		10402	10403	1	3
		10416	10417	1	3
		10460	10461	1	3
		10518	10519	1	3
		10540	10541	1	3
		11562	10563	1	3
		10601	10602	1	3
		10623	10624	1	3
		10674	10675	1	3
		10776	10777	1	3
		10803	10804	1	3
		10830	10831	1	3
				13	39

	Stage 3	Top	Bottom	ft	holes
LMV		10872	10873	1	3
		10897	10898	1	3
		10916	10917	1	3
		10947	10948	1	3
		10956	10957	1	3
		11000	11001	1	3
		11011	11012	1	3
		11041	11042	1	3
		11078	11079	1	3
		11086	11087	1	3
		11103	11104	1	3
				11	33

	Stage 2	Top	Bottom	ft	holes
LMV		11162	11163	1	3
		11169	11170	1	3
		11184	11185	1	3
		11224	11225	1	3
		11252	11253	1	3
		11264	11265	1	3
		11286	11287	1	3
		11300	11301	1	3
		11340	11341	1	3
		11352	11353	1	3
		11382	11383	1	3
				11	33

	Stage 1	Top	Bottom	ft	holes
LMV		11420	11421	1	3
		11433	11434	1	3
		11474	11475	1	3
		11524	11525	1	3
		11541	11542	1	3
		11580	11581	1	3
		11592	11593	1	3
		11629	11630	1	3
		11651	11652	1	3
		11672	11673	1	3
		11682	11683	1	3
				11	33

	Stage 6	Top	Bottom	ft	holes
UMV		9502	9503	1	3
		9512	9513	1	3
		9556	9557	1	3
		9642	9643	1	3
		9660	9661	1	3
		9740	9741	1	3
		9793	9794	1	3
		9806	9807	1	3
		9840	9841	1	3
		9884	9886	2	6
				11	33

	Stage 7	Top	Bottom	ft	holes
V DC Was		9006	9007	1	3
		9036	9037	1	3
		9088	9089	1	3
		9109	9110	1	3
		9248	9249	1	3
		9266	9267	1	3
		9290	9291	1	3
		9304	9305	1	3
		9341	9342	1	3
		9363	9364	1	3
		9412	9413	1	3
		9436	9437	1	3
				12	36

	Stage 8	Top	Bottom	ft	holes
Wasatch		8578	8579	1	3
		8609	8610	1	3
		8627	8628	1	3
		8660	8661	1	3
		8685	8686	1	3
		8703	8704	1	3
		8749	8750	1	3
		8799	8800	1	3
		8887	8888	1	3
		8934	8935	1	3
				10	30

	Stage 9	Top	Bottom	ft	holes
Wasatch		8086	8087	1	3
		8146	8147	1	3
		8159	8160	1	3
		8200	8201	1	3
		8206	8207	1	3
		8234	8235	1	3
		8249	8250	1	3
		8339	8340	1	3
		8370	8371	1	3
		8378	8379	1	3
		8419	8420	1	3
				11	33

	Stage 10	Top	Bottom	ft	holes
Wasatch		7338	7339	1	3
		7344	7345	1	3
		7360	7361	1	3
		7375	7376	1	3
		7386	7387	1	3
		7395	7396	1	3
		7440	7441	1	3
		7520	7521	1	3
		7612	7613	1	3
		7622	7623	1	3
				10	30

	Stage 11	Top	Bottom	ft	holes
Wasatch		6752	6753	1	3
		6773	6774	1	3
		6800	6801	1	3
		6813	6814	1	3
		6859	6860	1	3
		6979	6980	1	3
		6990	6992	2	6
				8	24

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Scientific Drilling

Directional Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	Gasco Energy
Well Name & No.	Federal 332-30-9-19
County & State	Uintah County, UT
SDI Job No.	420914DEF203927
Rig	SST 54

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 0 feet to a measured depth of 11,858 feet is true and correct as determined from all available records.

Signature

8-Oct-14
Date

Janie Collins
Colorado District Well Planner
Scientific Drilling International

Survey Report - Geographic

Scientific Drilling

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19 - Slot B
Project:	Uintah County, UT NAD27	**TVD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Site:	Federal 30-9S-19E	**MD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Project Uintah County, UT NAD27

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Federal 30-9S-19E

Site Position:		**Northing:**	611,489.37 usft	**Latitude:**	40° 0' 0.000 N
From:	Lat/Long	**Easting:**	2,471,903.54 usft	**Longitude:**	109° 48' 55.411 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.08 °

Well Federal #332-30-9-19 - Slot B

Well Position	**+N/-S**	0.00 ft	**Northing:**	611,550.18 usft	**Latitude:**	40° 0' 0.601 N
	+E/-W	0.00 ft	**Easting:**	2,471,902.40 usft	**Longitude:**	109° 48' 55.411 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	0.00 ft	**Ground Level:**	4,810.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2014	8/28/2014	10.92	65.72	51,857

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	276.30

Survey Program **Date** 10/8/2014

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
154.00	3,486.00	Survey #1 - Surface MWD (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1
3,535.00	11,858.00	Survey #2 - Production MWD Survey (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Map Northing (usft)**	**Map Easting (usft)**	**Latitude**	**Longitude**
0.00	0.00	0.00	0.00	0.00	0.00	611,550.18	2,471,902.40	40° 0' 0.601 N	109° 48' 55.411 W
154.00	0.84	282.72	153.99	0.25	-1.10	611,550.41	2,471,901.29	40° 0' 0.604 N	109° 48' 55.425 W
First SDI Surface MWD Survey									
210.00	0.84	273.69	209.99	0.37	-1.91	611,550.51	2,471,900.48	40° 0' 0.605 N	109° 48' 55.436 W
289.00	0.79	262.82	288.98	0.33	-3.03	611,550.46	2,471,899.36	40° 0' 0.604 N	109° 48' 55.450 W
376.00	0.88	257.37	375.97	0.11	-4.28	611,550.22	2,471,898.12	40° 0' 0.602 N	109° 48' 55.466 W
466.00	0.80	270.91	465.96	-0.03	-5.58	611,550.05	2,471,896.82	40° 0' 0.601 N	109° 48' 55.483 W
556.00	2.64	294.63	555.92	0.85	-8.09	611,550.88	2,471,894.29	40° 0' 0.609 N	109° 48' 55.515 W
646.00	4.40	291.73	645.74	2.99	-13.18	611,552.92	2,471,889.16	40° 0' 0.631 N	109° 48' 55.581 W
736.00	6.60	285.67	735.33	5.66	-21.37	611,555.44	2,471,880.92	40° 0' 0.657 N	109° 48' 55.686 W
826.00	8.27	284.96	824.57	8.73	-32.61	611,558.30	2,471,869.63	40° 0' 0.687 N	109° 48' 55.830 W

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Survey Report - Geographic

Scientific Drilling

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19 - Slot B
Project:	Uintah County, UT NAD27	**TVD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Site:	Federal 30-9S-19E	**MD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
916.00	10.20	278.20	913.40	11.54	-46.75	611,560.84	2,471,855.44	40° 0' 0.715 N	109° 48' 56.012 W
1,006.00	11.71	276.72	1,001.76	13.75	-63.71	611,562.73	2,471,838.44	40° 0' 0.737 N	109° 48' 56.230 W
1,096.00	13.72	274.68	1,089.54	15.69	-83.42	611,564.29	2,471,818.70	40° 0' 0.756 N	109° 48' 56.483 W
1,186.00	15.74	273.36	1,176.58	17.27	-106.24	611,565.45	2,471,795.85	40° 0' 0.772 N	109° 48' 56.777 W
1,276.00	17.15	272.40	1,262.90	18.54	-131.69	611,566.24	2,471,770.38	40° 0' 0.784 N	109° 48' 57.103 W
1,366.00	18.82	273.36	1,348.50	19.95	-159.44	611,567.13	2,471,742.61	40° 0' 0.798 N	109° 48' 57.460 W
1,456.00	19.52	273.10	1,433.51	21.61	-188.95	611,568.23	2,471,713.08	40° 0' 0.815 N	109° 48' 57.839 W
1,546.00	20.40	275.12	1,518.10	23.83	-219.58	611,569.87	2,471,682.40	40° 0' 0.837 N	109° 48' 58.233 W
1,636.00	20.66	275.12	1,602.38	26.64	-251.02	611,572.09	2,471,650.92	40° 0' 0.864 N	109° 48' 58.637 W
1,726.00	21.10	275.12	1,686.47	29.51	-282.97	611,574.35	2,471,618.92	40° 0' 0.893 N	109° 48' 59.048 W
1,816.00	20.93	274.24	1,770.49	32.14	-315.14	611,576.38	2,471,586.71	40° 0' 0.919 N	109° 48' 59.461 W
1,906.00	19.96	274.77	1,854.82	34.61	-346.48	611,578.26	2,471,555.33	40° 0' 0.943 N	109° 48' 59.864 W
1,996.00	20.36	277.19	1,939.31	37.84	-377.32	611,580.91	2,471,524.43	40° 0' 0.975 N	109° 49' 0.260 W
2,086.00	20.49	278.46	2,023.65	42.12	-408.43	611,584.60	2,471,493.24	40° 0' 1.017 N	109° 49' 0.660 W
2,176.00	20.49	274.51	2,107.96	45.68	-439.72	611,587.57	2,471,461.90	40° 0' 1.052 N	109° 49' 1.062 W
2,266.00	19.08	275.38	2,192.64	48.29	-470.07	611,589.62	2,471,431.50	40° 0' 1.078 N	109° 49' 1.452 W
2,356.00	18.99	277.14	2,277.72	51.49	-499.24	611,592.27	2,471,402.27	40° 0' 1.110 N	109° 49' 1.827 W
2,446.00	19.90	277.91	2,362.59	55.42	-528.94	611,595.63	2,471,372.50	40° 0' 1.149 N	109° 49' 2.208 W
2,536.00	21.28	278.46	2,446.84	59.93	-560.27	611,599.55	2,471,341.10	40° 0' 1.193 N	109° 49' 2.611 W
2,626.00	21.02	278.02	2,530.77	64.59	-592.41	611,603.60	2,471,308.88	40° 0' 1.239 N	109° 49' 3.024 W
2,716.00	20.93	277.93	2,614.81	69.06	-624.31	611,607.47	2,471,276.89	40° 0' 1.284 N	109° 49' 3.434 W
2,806.00	21.19	276.35	2,698.80	73.07	-656.40	611,610.88	2,471,244.74	40° 0' 1.323 N	109° 49' 3.846 W
2,896.00	19.33	274.87	2,783.23	76.14	-687.41	611,613.36	2,471,213.67	40° 0' 1.354 N	109° 49' 4.245 W
2,986.00	19.52	274.51	2,868.11	78.58	-717.24	611,615.25	2,471,183.80	40° 0' 1.378 N	109° 49' 4.628 W
3,076.00	19.77	275.67	2,952.87	81.27	-747.38	611,617.36	2,471,153.62	40° 0' 1.404 N	109° 49' 5.016 W
3,166.00	19.87	276.18	3,037.54	84.42	-777.73	611,619.94	2,471,123.21	40° 0' 1.435 N	109° 49' 5.406 W
3,256.00	19.79	275.65	3,122.20	87.57	-808.10	611,622.52	2,471,092.79	40° 0' 1.466 N	109° 49' 5.796 W
3,346.00	19.85	276.37	3,206.87	90.76	-838.45	611,625.14	2,471,062.39	40° 0' 1.498 N	109° 49' 6.186 W
3,436.00	20.14	278.29	3,291.44	94.69	-868.97	611,628.49	2,471,031.80	40° 0' 1.537 N	109° 49' 6.578 W
3,486.00	20.40	277.93	3,338.35	97.14	-886.11	611,630.61	2,471,014.61	40° 0' 1.561 N	109° 49' 6.798 W
Last SDI Surface MWD Survey									
3,535.00	20.58	277.49	3,384.25	99.44	-903.11	611,632.59	2,470,997.57	40° 0' 1.584 N	109° 49' 7.017 W
First SDI Production MWD Survey									
3,627.00	20.05	274.86	3,470.53	102.88	-934.86	611,635.44	2,470,965.77	40° 0' 1.618 N	109° 49' 7.425 W
3,723.00	19.52	274.42	3,560.86	105.51	-967.25	611,637.46	2,470,933.33	40° 0' 1.644 N	109° 49' 7.841 W
3,818.00	17.67	275.65	3,650.90	108.15	-997.42	611,639.53	2,470,903.12	40° 0' 1.670 N	109° 49' 8.229 W
3,912.00	18.29	275.91	3,740.30	111.08	-1,026.29	611,641.91	2,470,874.20	40° 0' 1.699 N	109° 49' 8.600 W
4,008.00	18.06	277.50	3,831.52	114.57	-1,056.03	611,644.84	2,470,844.40	40° 0' 1.733 N	109° 49' 8.982 W
4,103.00	18.55	279.43	3,921.71	118.97	-1,085.53	611,648.69	2,470,814.82	40° 0' 1.777 N	109° 49' 9.361 W
4,198.00	18.64	277.93	4,011.75	123.54	-1,115.48	611,652.69	2,470,784.79	40° 0' 1.822 N	109° 49' 9.746 W
4,294.00	17.67	276.44	4,102.97	127.29	-1,145.15	611,655.88	2,470,755.05	40° 0' 1.859 N	109° 49' 10.127 W
4,389.00	15.21	274.24	4,194.08	129.83	-1,171.91	611,657.92	2,470,728.25	40° 0' 1.884 N	109° 49' 10.471 W
4,484.00	13.54	273.01	4,286.10	131.33	-1,195.45	611,658.98	2,470,704.69	40° 0' 1.899 N	109° 49' 10.773 W
4,579.00	12.68	272.24	4,378.63	132.33	-1,216.97	611,659.57	2,470,683.15	40° 0' 1.909 N	109° 49' 11.050 W
4,675.00	11.09	273.33	4,472.57	133.27	-1,236.72	611,660.14	2,470,663.39	40° 0' 1.918 N	109° 49' 11.304 W
4,770.00	9.94	282.41	4,565.98	135.57	-1,253.85	611,662.11	2,470,646.22	40° 0' 1.941 N	109° 49' 11.524 W
4,865.00	8.36	283.53	4,659.76	138.94	-1,268.57	611,665.21	2,470,631.43	40° 0' 1.974 N	109° 49' 11.713 W
4,961.00	8.27	281.27	4,754.75	141.93	-1,282.13	611,667.94	2,470,617.82	40° 0' 2.003 N	109° 49' 11.887 W
5,056.00	7.39	275.31	4,848.87	143.83	-1,294.91	611,669.60	2,470,605.01	40° 0' 2.022 N	109° 49' 12.052 W
5,151.00	5.28	283.56	4,943.29	145.42	-1,305.25	611,670.99	2,470,594.64	40° 0' 2.038 N	109° 49' 12.184 W
5,245.00	4.22	286.90	5,036.96	147.44	-1,312.76	611,672.87	2,470,587.09	40° 0' 2.058 N	109° 49' 12.281 W
5,340.00	3.43	279.95	5,131.75	148.94	-1,318.90	611,674.26	2,470,580.92	40° 0' 2.073 N	109° 49' 12.360 W
5,435.00	2.29	303.51	5,226.63	150.48	-1,323.29	611,675.72	2,470,576.51	40° 0' 2.088 N	109° 49' 12.416 W
5,529.00	1.58	316.16	5,320.58	152.45	-1,325.75	611,677.64	2,470,574.01	40° 0' 2.108 N	109° 49' 12.448 W
5,624.00	1.58	315.29	5,415.54	154.33	-1,327.58	611,679.48	2,470,572.15	40° 0' 2.126 N	109° 49' 12.471 W

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Survey Report - Geographic

Scientific Drilling

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19 - Slot B
Project:	Uintah County, UT NAD27	**TVD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Site:	Federal 30-9S-19E	**MD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,721.00	1.32	38.25	5,512.52	156.16	-1,327.83	611,681.31	2,470,571.87	40° 0' 2.144 N	109° 49' 12.475 W
5,817.00	0.72	56.78	5,608.51	157.36	-1,326.64	611,682.53	2,470,573.03	40° 0' 2.156 N	109° 49' 12.459 W
5,912.00	0.35	59.26	5,703.50	157.83	-1,325.89	611,683.02	2,470,573.77	40° 0' 2.161 N	109° 49' 12.450 W
6,005.00	0.62	131.07	5,796.50	157.65	-1,325.27	611,682.84	2,470,574.40	40° 0' 2.159 N	109° 49' 12.442 W
6,100.00	0.88	305.18	5,891.50	157.73	-1,325.47	611,682.92	2,470,574.19	40° 0' 2.160 N	109° 49' 12.444 W
6,194.00	0.88	285.84	5,985.49	158.34	-1,326.76	611,683.51	2,470,572.89	40° 0' 2.166 N	109° 49' 12.461 W
6,289.00	0.79	261.67	6,080.48	158.45	-1,328.11	611,683.59	2,470,571.54	40° 0' 2.167 N	109° 49' 12.478 W
6,383.00	0.75	242.04	6,174.47	158.06	-1,329.29	611,683.19	2,470,570.36	40° 0' 2.163 N	109° 49' 12.494 W
6,479.00	0.88	218.43	6,270.46	157.19	-1,330.31	611,682.29	2,470,569.37	40° 0' 2.154 N	109° 49' 12.507 W
6,573.00	1.28	330.15	6,364.45	157.54	-1,331.28	611,682.62	2,470,568.39	40° 0' 2.158 N	109° 49' 12.519 W
6,670.00	1.01	320.40	6,461.43	159.14	-1,332.36	611,684.20	2,470,567.28	40° 0' 2.174 N	109° 49' 12.533 W
6,765.00	0.79	320.38	6,556.42	160.29	-1,333.31	611,685.33	2,470,566.30	40° 0' 2.185 N	109° 49' 12.545 W
6,860.00	0.36	311.65	6,651.41	160.99	-1,333.95	611,686.02	2,470,565.65	40° 0' 2.192 N	109° 49' 12.553 W
6,954.00	0.09	250.86	6,745.41	161.16	-1,334.24	611,686.19	2,470,565.36	40° 0' 2.194 N	109° 49' 12.557 W
7,049.00	0.18	166.66	6,840.41	160.99	-1,334.28	611,686.02	2,470,565.32	40° 0' 2.192 N	109° 49' 12.558 W
7,147.00	0.53	177.21	6,938.41	160.39	-1,334.22	611,685.42	2,470,565.39	40° 0' 2.186 N	109° 49' 12.557 W
7,241.00	0.95	167.90	7,032.40	159.19	-1,334.04	611,684.22	2,470,565.60	40° 0' 2.174 N	109° 49' 12.555 W
7,336.00	1.14	160.77	7,127.39	157.53	-1,333.56	611,682.57	2,470,566.11	40° 0' 2.158 N	109° 49' 12.548 W
7,428.00	0.44	12.59	7,219.38	157.01	-1,333.18	611,682.06	2,470,566.49	40° 0' 2.153 N	109° 49' 12.544 W
7,527.00	0.07	111.67	7,318.38	157.36	-1,333.04	611,682.41	2,470,566.63	40° 0' 2.156 N	109° 49' 12.542 W
7,622.00	0.53	173.61	7,413.38	156.90	-1,332.94	611,681.95	2,470,566.74	40° 0' 2.151 N	109° 49' 12.540 W
7,717.00	0.97	171.85	7,508.37	155.67	-1,332.78	611,680.72	2,470,566.92	40° 0' 2.139 N	109° 49' 12.538 W
7,812.00	0.76	74.17	7,603.36	155.04	-1,332.06	611,680.11	2,470,567.66	40° 0' 2.133 N	109° 49' 12.529 W
7,907.00	0.62	80.62	7,698.36	155.30	-1,330.95	611,680.39	2,470,568.76	40° 0' 2.136 N	109° 49' 12.515 W
8,003.00	0.60	120.78	7,794.35	155.13	-1,330.00	611,680.24	2,470,569.71	40° 0' 2.134 N	109° 49' 12.503 W
8,096.00	0.70	147.33	7,887.34	154.40	-1,329.28	611,679.52	2,470,570.45	40° 0' 2.127 N	109° 49' 12.493 W
8,191.00	0.88	25.60	7,982.34	154.57	-1,328.65	611,679.70	2,470,571.08	40° 0' 2.128 N	109° 49' 12.485 W
8,285.00	0.62	40.01	8,076.33	155.61	-1,328.01	611,680.76	2,470,571.69	40° 0' 2.139 N	109° 49' 12.477 W
8,379.00	0.44	80.53	8,170.33	156.06	-1,327.33	611,681.22	2,470,572.37	40° 0' 2.143 N	109° 49' 12.468 W
8,475.00	0.50	105.43	8,266.33	156.01	-1,326.56	611,681.18	2,470,573.14	40° 0' 2.143 N	109° 49' 12.458 W
8,570.00	0.53	14.96	8,361.32	156.32	-1,326.05	611,681.50	2,470,573.64	40° 0' 2.146 N	109° 49' 12.452 W
8,664.00	0.44	15.84	8,455.32	157.09	-1,325.83	611,682.28	2,470,573.84	40° 0' 2.153 N	109° 49' 12.449 W
8,760.00	0.24	35.54	8,551.32	157.61	-1,325.62	611,682.80	2,470,574.05	40° 0' 2.158 N	109° 49' 12.446 W
8,855.00	0.26	150.67	8,646.32	157.58	-1,325.40	611,682.78	2,470,574.27	40° 0' 2.158 N	109° 49' 12.443 W
8,950.00	0.62	169.56	8,741.31	156.89	-1,325.20	611,682.09	2,470,574.48	40° 0' 2.151 N	109° 49' 12.441 W
9,044.00	0.88	157.26	8,835.31	155.72	-1,324.83	611,680.93	2,470,574.87	40° 0' 2.140 N	109° 49' 12.436 W
9,139.00	0.62	81.91	8,930.30	155.12	-1,324.03	611,680.34	2,470,575.68	40° 0' 2.134 N	109° 49' 12.426 W
9,232.00	0.84	350.64	9,023.29	155.87	-1,323.65	611,681.09	2,470,576.05	40° 0' 2.141 N	109° 49' 12.421 W
9,328.00	0.80	4.68	9,119.29	157.23	-1,323.71	611,682.45	2,470,575.96	40° 0' 2.155 N	109° 49' 12.422 W
9,423.00	0.62	336.91	9,214.28	158.36	-1,323.85	611,683.58	2,470,575.80	40° 0' 2.166 N	109° 49' 12.424 W
9,518.00	0.70	340.07	9,309.27	159.38	-1,324.25	611,684.59	2,470,575.38	40° 0' 2.176 N	109° 49' 12.429 W
9,612.00	0.62	310.71	9,403.27	160.25	-1,324.84	611,685.46	2,470,574.78	40° 0' 2.185 N	109° 49' 12.436 W
9,708.00	0.62	297.27	9,499.26	160.83	-1,325.69	611,686.02	2,470,573.91	40° 0' 2.190 N	109° 49' 12.447 W
9,805.00	1.06	345.78	9,596.25	161.94	-1,326.38	611,687.11	2,470,573.21	40° 0' 2.201 N	109° 49' 12.456 W
9,900.00	0.88	331.02	9,691.24	163.43	-1,326.95	611,688.59	2,470,572.61	40° 0' 2.216 N	109° 49' 12.463 W
9,995.00	0.79	314.76	9,786.23	164.53	-1,327.77	611,689.68	2,470,571.77	40° 0' 2.227 N	109° 49' 12.474 W
10,091.00	0.62	271.16	9,882.22	165.00	-1,328.75	611,690.13	2,470,570.77	40° 0' 2.232 N	109° 49' 12.487 W
10,187.00	0.52	220.08	9,978.22	164.68	-1,329.55	611,689.80	2,470,569.98	40° 0' 2.228 N	109° 49' 12.497 W
10,283.00	0.53	222.82	10,074.21	164.02	-1,330.14	611,689.13	2,470,569.41	40° 0' 2.222 N	109° 49' 12.504 W
10,378.00	0.53	203.49	10,169.21	163.30	-1,330.61	611,688.39	2,470,568.95	40° 0' 2.215 N	109° 49' 12.510 W
10,473.00	1.04	183.37	10,264.20	162.03	-1,330.84	611,687.12	2,470,568.75	40° 0' 2.202 N	109° 49' 12.513 W
10,568.00	0.62	142.67	10,359.19	160.76	-1,330.58	611,685.86	2,470,569.03	40° 0' 2.190 N	109° 49' 12.510 W
10,662.00	0.62	117.09	10,453.18	160.13	-1,329.81	611,685.24	2,470,569.80	40° 0' 2.183 N	109° 49' 12.500 W
10,760.00	0.88	171.32	10,551.18	159.14	-1,329.23	611,684.26	2,470,570.41	40° 0' 2.174 N	109° 49' 12.493 W
10,859.00	1.19	165.85	10,650.16	157.39	-1,328.86	611,682.52	2,470,570.81	40° 0' 2.156 N	109° 49' 12.488 W

RECEIVED: Jun. 29, 2015

Survey Report - Geographic

Scientific Drilling

Company:	Gasco Energy	**Local Co-ordinate Reference:**	Well Federal #332-30-9-19 - Slot B
Project:	Uintah County, UT NAD27	**TVD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Site:	Federal 30-9S-19E	**MD Reference:**	GL 4810' & RKB 25' @ 4835.00ft (SST 54)
Well:	Federal #332-30-9-19	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,947.00	1.14	159.46	10,738.14	155.69	-1,328.33	611,680.83	2,470,571.37	40° 0' 2.139 N	109° 49' 12.481 W
11,043.00	1.32	145.58	10,834.12	153.88	-1,327.37	611,679.04	2,470,572.36	40° 0' 2.122 N	109° 49' 12.469 W
11,138.00	1.41	142.14	10,929.09	152.06	-1,326.04	611,677.24	2,470,573.73	40° 0' 2.104 N	109° 49' 12.452 W
11,234.00	1.58	160.77	11,025.06	149.87	-1,324.88	611,675.08	2,470,574.94	40° 0' 2.082 N	109° 49' 12.437 W
11,328.00	1.67	164.20	11,119.02	147.33	-1,324.08	611,672.55	2,470,575.78	40° 0' 2.057 N	109° 49' 12.426 W
11,426.00	1.67	163.32	11,216.98	144.59	-1,323.28	611,669.83	2,470,576.63	40° 0' 2.030 N	109° 49' 12.416 W
11,521.00	1.85	158.00	11,311.94	141.84	-1,322.30	611,667.10	2,470,577.66	40° 0' 2.003 N	109° 49' 12.404 W
11,615.00	1.92	149.91	11,405.89	139.07	-1,320.95	611,664.35	2,470,579.07	40° 0' 1.975 N	109° 49' 12.386 W
11,710.00	1.85	151.63	11,500.84	136.35	-1,319.42	611,661.66	2,470,580.64	40° 0' 1.948 N	109° 49' 12.367 W
11,799.00	2.11	158.58	11,589.78	133.56	-1,318.14	611,658.89	2,470,581.98	40° 0' 1.921 N	109° 49' 12.350 W
Last SDI Production MWD Survey									
11,858.00	2.11	158.58	11,648.74	131.54	-1,317.35	611,656.89	2,470,582.81	40° 0' 1.901 N	109° 49' 12.340 W
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
154.00	153.99	0.25	-1.10	First SDI Surface MWD Survey
3,486.00	3,338.35	97.14	-886.11	Last SDI Surface MWD Survey
3,535.00	3,384.25	99.44	-903.11	First SDI Production MWD Survey
11,799.00	11,589.78	133.56	-1,318.14	Last SDI Production MWD Survey
11,858.00	11,648.74	131.54	-1,317.35	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

RECEIVED: Jun. 29, 2015

Division of Oil, Gas and Mining
Operator Change/Name Change Worksheet-for State use only

Effective Date: 4/16/2015

FORMER OPERATOR:	NEW OPERATOR:
Gasco Prodcution Company N2575 7979 E. Tufts Avenue, Suite 11500 Denver, CO 80237 303-996-1805	Badlands Production Company N4265 7979 E. Tufts Avenue, Suite 11500 Denver, CO 80237 303-996-1805
CA Number(s):	Unit(s):Gate Canyon, Wilkin Ridge Deep, RBU-EOR-GRRV

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 6/2/2015
2. Sundry or legal documentation was received from the **NEW** operator on: 6/2/2015
3. New operator Division of Corporations Business Number: 1454161-0143

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 6/2/2015
2. Receipt of Acceptance of Drilling Procedures for APD on: N/A
3. Reports current for Production/Disposition & Sundries: 6/3/2015
4. OPS/SI/TA well(s) reviewed for full cost bonding: 1/20/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: N/A
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: SUR0027842
2. Indian well(s) covered by Bond Number: N/A
3.State/fee well(s) covered by Bond Number(s): SUR0027845
SUR0035619 -FCB

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 1/22/2016
2. Entity Number(s) updated in **OGIS** on: 1/22/2016
3. Unit(s) operator number update in **OGIS** on: 1/22/2016
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 1/22/2016
6. Surface Facilities update in **RBDMS** on: N/A

LEASE INTEREST OWNER NOTIFICATION:

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/22/2016

COMMENTS:

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

Well Name	Section	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
FEDERAL 23-18G-9-19	18	090S	190E	4304752496		Federal	Federal	OW	APD
FEDERAL 14-17G-9-19	17	090S	190E	4304752522		Federal	Federal	OW	APD
FEDERAL 13-18G-9-19	18	090S	190E	4304752538		Federal	Federal	OW	APD
FEDERAL 23-29G-9-19	29	090S	190E	4304752544		Federal	Federal	OW	APD
FEDERAL 24-20G-9-19	20	090S	190E	4304752545		Federal	Federal	OW	APD
FEDERAL 31-21G-9-19	21	090S	190E	4304752546		Federal	Federal	OW	APD
Federal 323-29-9-19	29	090S	190E	4304753026		Federal	Federal	GW	APD
Federal 421-29-9-19	29	090S	190E	4304753027		Federal	Federal	GW	APD
Federal 322-29-9-19	29	090S	190E	4304753029		Federal	Federal	GW	APD
Federal 431-29-9-19	29	090S	190E	4304753030		Federal	Federal	GW	APD
Federal 432-29-9-19	29	090S	190E	4304753031		Federal	Federal	GW	APD
Federal 414-29-9-19	29	090S	190E	4304753070		Federal	Federal	GW	APD
FEDERAL 412-29-9-19	29	090S	190E	4304753073		Federal	Federal	GW	APD
FEDERAL 213-29-9-19	29	090S	190E	4304753076		Federal	Federal	GW	APD
federal 321-29-9-19	29	090S	190E	4304753078		Federal	Federal	GW	APD
FEDERAL 213-29-9-19	29	090S	190E	4304753079		Federal	Federal	GW	APD
FEDERAL 321-29-9-19	29	090S	190E	4304753080		Federal	Federal	GW	APD
Federal 212-29-9-19	29	090S	190E	4304753133		Federal	Federal	GW	APD
State 321-32-9-19	32	090S	190E	4304754479		State	State	GW	APD
State 423-32-9-19	32	090S	190E	4304754480		State	State	GW	APD
State 421-32-9-19	32	090S	190E	4304754481		State	State	GW	APD
State 413-32-9-19	32	090S	190E	4304754482		State	State	GW	APD
State 323-32-9-19	32	090S	190E	4304754483		State	State	GW	APD
State 431-32-9-19	32	090S	190E	4304754529		State	State	GW	APD
Desert Spring State 224-36-9-18	36	090S	180E	4304754541		State	State	GW	APD
Desert Spring State 243-36-9-18	36	090S	180E	4304754542		State	State	GW	APD
Desert Spring State 241-36-9-18	36	090S	180E	4304754543		State	State	GW	APD
FEDERAL 332-30-9-19	30	090S	190E	4304753012	19650	Federal	Federal	GW	DRL
WILKIN RIDGE FED 43-29-10-17	29	100S	170E	4301333098	15941	Federal	Federal	GW	OPS
LAMB TRUST 11-23-9-19	23	090S	190E	4304736915	16556	Fee	Fee	GW	OPS
SHEEP WASH FED 43-26-9-18	26	090S	180E	4304738573	17201	Federal	Federal	GW	OPS
FEDERAL 13-19-9-19	19	090S	190E	4304739777	18344	Federal	Federal	GW	OPS
FEDERAL 12-17-9-19	17	090S	190E	4304739800	17202	Federal	Federal	GW	OPS
GATE CYN 31-21-11-15	21	110S	150E	4301332391	13787	State	State	GW	P
WILKIN RIDGE ST 12-32-10-17	32	100S	170E	4301332447	14033	State	State	GW	P
GATE CYN 41-20-11-15	20	110S	150E	4301332475	14417	State	State	GW	P
WILKIN RIDGE FED 34-17-10-17	17	100S	170E	4301332560	14726	Federal	Federal	GW	P
GATE CYN 41-19-11-16	19	110S	160E	4301332611	14439	Federal	Federal	GW	P
WILKIN RIDGE ST 44-32-10-17	32	100S	170E	4301332619	15649	State	State	GW	P
WILKIN RIDGE FED 12-4-11-17	4	110S	170E	4301332674	15537	Federal	Federal	GW	P
WILKIN RIDGE ST 24-32-10-17	32	100S	170E	4301332676	15242	State	State	GW	P
WILKIN RIDGE FED 23-29-10-17	29	100S	170E	4301332679	14033	Federal	Federal	GW	P
GATE CYN ST 23-16-11-15	16	110S	150E	4301332685	16082	State	State	GW	P
WILKIN RIDGE ST 34-16-10-17	16	100S	170E	4301332730	15243	State	State	GW	P
WILKIN RIDGE FED 31-29-10-17	29	100S	170E	4301332773	15370	Federal	Federal	GW	P
WILKIN RIDGE 32-08	8	110S	170E	4301332778	14802	Federal	Federal	GW	P
GATE CYN ST 23-16-11-16	16	110S	160E	4301332888	15098	State	State	GW	P
WILKIN RIDGE FED 24-20-10-17	20	100S	170E	4301333081	15714	Federal	Federal	GW	P
WILKIN RIDGE FED 32-20-10-17	20	100S	170E	4301333087	15807	Federal	Federal	GW	P
WILKIN RIDGE FED 14-4-11-17	4	110S	170E	4301333099	15920	Federal	Federal	GW	P
RYE PATCH FED 22-21	22	110S	140E	4301333437	16919	Federal	Federal	GW	P
RYE PATCH FED 24-21	24	110S	140E	4301333443	16367	Federal	Federal	GW	P
SQUAW CROSSING U 5	2	100S	180E	4304730129	16266	State	State	OW	P
RBU 5-11D	11	100S	180E	4304730409	9005	Federal	Federal	OW	P
FEDERAL 7-25A	25	090S	180E	4304730624	9030	Federal	Federal	OW	P

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

RBU 6-2D	2	100S	180E	4304731190	7075	State	State	OW	P
NGC 33-18J	18	090S	190E	4304731200	6155	Federal	Federal	OW	P
RBU 13-2D	2	100S	180E	4304731280	16267	State	State	OW	P
RBU 16-3D	3	100S	180E	4304731352	16268	Federal	Federal	OW	P
RBU 10-11D	11	100S	180E	4304731357	7053	Federal	Federal	OW	P
RBU 8-10D	10	100S	180E	4304731364	4955	Federal	Federal	OW	P
RBU 15-3D	3	100S	180E	4304731539	9965	Federal	Federal	OW	P
RBU 12-12D	12	100S	180E	4304731651	10688	Federal	Federal	OW	P
RBU 2-10D	10	100S	180E	4304731801	10784	Federal	Federal	OW	P
RBU 3-15D	15	100S	180E	4304733600	13213	Federal	Federal	OW	P
RBU 3-12D	12	100S	180E	4304733739	14492	Federal	Federal	OW	P
STATE 7-36A	36	090S	180E	4304733741	14244	State	State	GW	P
FEDERAL 34-29	29	090S	190E	4304733750	13174	Federal	Federal	GW	P
FEDERAL 24-7 #1	7	100S	180E	4304733983	13182	Federal	Federal	GW	P
FEDERAL 23-29 #1	29	090S	190E	4304734111	13441	Federal	Federal	GW	P
FED 24-20-9-19	20	090S	190E	4304734168	14150	Federal	Federal	GW	P
FED 44-20-9-19	20	090S	190E	4304734169	14140	Federal	Federal	GW	P
FED 23-21-9-19	21	090S	190E	4304734199	13601	Federal	Federal	GW	P
FED 32-31-9-19	31	090S	190E	4304734201	13641	Federal	Federal	GW	P
FED 42-29-9-19	29	090S	190E	4304734202	13455	Federal	Federal	GW	P
PETES WASH 23-12 #1	12	100S	170E	4304734286	13492	Federal	Federal	GW	P
STATE 4-32B	32	090S	190E	4304734314	14440	State	State	GW	P
FED 14-18-2 #1	18	100S	180E	4304734539	13491	Federal	Federal	GW	P
FED 43-24-3 #1	24	100S	170E	4304734551	13726	Federal	Federal	GW	P
LYTHAM FED 22-22-9-19	22	090S	190E	4304734607	13640	Federal	Federal	GW	P
FED 11-21-9-19	21	090S	190E	4304734608	14151	Federal	Federal	GW	P
FED 22-30-10-18	30	100S	180E	4304734924	14280	Federal	Federal	GW	P
FEDERAL 43-30-9-19	30	090S	190E	4304735343	14202	Federal	Federal	GW	P
FED 11-22-9-19	22	090S	190E	4304735404	14203	Federal	Federal	GW	P
FED 42-21-9-19	21	090S	190E	4304735405	14928	Federal	Federal	GW	P
STATE 24-16-9-19	16	090S	190E	4304735588	14418	State	Federal	GW	P
FEDERAL 31-21-9-19	21	090S	190E	4304735606	14441	Federal	Federal	GW	P
FEDERAL 12-29-9-19	29	090S	190E	4304735614	14442	Federal	Federal	GW	P
FEDERAL 24-31-9-19	31	090S	190E	4304735623	14640	Federal	Federal	GW	P
FEDERAL 41-31-9-19	31	090S	190E	4304735624	14419	Federal	Federal	GW	P
LAMB TRUST 24-22-9-19	22	090S	190E	4304735732	14496	Fee	Fee	GW	P
LAMB TRUST 24-14-9-19	14	090S	190E	4304735733	14519	Fee	Fee	GW	P
FEDERAL 11-22-10-18	22	100S	180E	4304735808	15592	Federal	Federal	GW	P
FEDERAL 21-6-10-19	6	100S	190E	4304735844	14356	Federal	Federal	GW	P
DESERT SPRING ST 41-36-9-18	36	090S	180E	4304735845	14639	State	State	GW	P
STATE 12-32-9-19	32	090S	190E	4304735995	14871	State	State	GW	P
FEDERAL 12-20-9-19	20	090S	190E	4304736093	14976	Federal	Federal	GW	P
FEDERAL 32-20-9-19	20	090S	190E	4304736094	16120	Federal	Federal	GW	P
FEDERAL 23-30-9-19	30	090S	190E	4304736095	14872	Federal	Federal	GW	P
SHEEP WASH FED 34-26-9-18	26	090S	180E	4304736113	15096	Federal	Federal	GW	P
DESERT SPRING ST 23-36-9-18	36	090S	180E	4304736219	14738	State	State	GW	P
DESERT SPRING ST 21-36-9-18	36	090S	180E	4304736220	14763	State	State	GW	P
DESERT SPRING ST 12-36-9-18	36	090S	180E	4304736233	14764	State	State	GW	P
DESERT SPRING ST 43-36-9-18	36	090S	180E	4304736241	14992	State	State	GW	P
DESERT SPRING ST 34-36-9-18	36	090S	180E	4304736242	14716	State	State	GW	P
FEDERAL 14-31-9-19	31	090S	190E	4304736271	15884	Federal	Federal	GW	P
FEDERAL 12-31-9-19	31	090S	190E	4304736336	15086	Federal	Federal	GW	P
FEDERAL 21-31-9-19	31	090S	190E	4304736368	15605	Federal	Federal	GW	P
FEDERAL 23-31-9-19	31	090S	190E	4304736442	15715	Federal	Federal	GW	P
SHEEP WASH FED 43-25-9-18	25	090S	180E	4304736600	14977	Federal	Federal	GW	P
FEDERAL 43-19-9-19	19	090S	190E	4304736719	15186	Federal	Federal	GW	P

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

SHEEP WASH FED 21-25-9-18	25	090S	180E	4304736727	15475	Federal	Federal	GW	P
FEDERAL 21-30-9-19	30	090S	190E	4304736739	15476	Federal	Federal	GW	P
SHEEP WASH FED 23-25-9-18	25	090S	180E	4304736740	15213	Federal	Federal	GW	P
FEDERAL 23-19-9-19	19	090S	190E	4304736771	15355	Federal	Federal	GW	P
SHEEP WASH FED 41-25-9-18	25	090S	180E	4304736772	15338	Federal	Federal	GW	P
FEDERAL 41-30-9-19	30	090S	190E	4304736817	15212	Federal	Federal	GW	P
LAMB TRUST 34-22-9-19	22	090S	190E	4304736913	15187	Fee	Fee	GW	P
LAMB TRUST 14-14-9-19	14	090S	190E	4304736916	17012	Fee	Fee	GW	P
DESERT SPRING ST 33-36-9-18	36	090S	180E	4304737115	15011	State	State	GW	P
FEDERAL 14-17-9-19	17	090S	190E	4304737116	16163	Federal	Federal	GW	P
FEDERAL 34-18-9-19	18	090S	190E	4304737117	16275	Federal	Federal	GW	P
UTELAND ST 41-2-10-18	2	100S	180E	4304737132	15087	State	State	GW	P
UTELAND ST 43-2-10-18	2	100S	180E	4304737338	15365	State	State	GW	P
FEDERAL 41-19-9-19	19	090S	190E	4304737611	16311	Federal	Federal	GW	P
FEDERAL 32-30-9-19	30	090S	190E	4304737612	16051	Federal	Federal	GW	P
FEDERAL 12-30-9-19	30	090S	190E	4304737613	16052	Federal	Federal	GW	P
FEDERAL 21-19-9-19	19	090S	190E	4304737621	16253	Federal	Federal	GW	P
FEDERAL 14-18-9-19	18	090S	190E	4304737622	16264	Federal	Federal	GW	P
FEDERAL 34-30-9-19	30	090S	190E	4304737630	16557	Federal	Federal	GW	P
DESERT SPRING FED 21-1-10-18	1	100S	180E	4304737631	15961	Federal	Federal	GW	P
FEDERAL 12-1-10-18	1	100S	180E	4304737646	16023	Federal	Federal	GW	P
SHEEP WASH FED 14-25-9-18	25	090S	180E	4304737647	16121	Federal	Federal	GW	P
UTELAND ST 21-2-10-18	2	100S	180E	4304737676	16254	State	State	GW	P
UTELAND ST 12-2-10-18	2	100S	180E	4304737677	15806	State	State	GW	P
UTELAND ST 34-2-10-18	2	100S	180E	4304738028	16868	State	State	GW	P
FEDERAL 14-19-9-19	19	090S	190E	4304738336	16467	Federal	Federal	GW	P
FEDERAL 34-19-9-19	19	090S	190E	4304738337	16119	Federal	Federal	GW	P
SHEEP WASH FED 41-26-9-18	26	090S	180E	4304738351	16884	Federal	Federal	GW	P
SHEEP WASH FED 32-25-9-18	25	090S	180E	4304738352	16349	Federal	Federal	GW	P
SHEEP WASH FED 34-25-9-18	25	090S	180E	4304738353	16210	Federal	Federal	GW	P
FEDERAL 12-19-9-19	19	090S	190E	4304738407	16236	Federal	Federal	GW	P
SHEEP WASH FED 23-26-9-18	26	090S	180E	4304738465	16558	Federal	Federal	GW	P
SHEEP WASH FED 12-25-9-18	25	090S	180E	4304738469	16449	Federal	Federal	GW	P
FEDERAL 23-18-9-19	18	090S	190E	4304738575	16312	Federal	Federal	GW	P
LAMB TRUST 34-22A-9-19	22	090S	190E	4304738673	15832	Fee	Fee	GW	P
UTELAND FED 42-11-10-18	11	100S	180E	4304738896	16792	Federal	Federal	GW	P
STATE 21-32B	32	090S	190E	4304739170	16309	State	State	GW	P
STATE 22-32A	32	090S	190E	4304739171	16308	State	State	GW	P
STATE 21-32A	32	090S	190E	4304739172	16310	State	State	GW	P
FEDERAL 11-19-9-19	19	090S	190E	4304739717	17054	Federal	Federal	GW	P
SHEEP WASH FED 31-25-9-18	25	090S	180E	4304739729	17241	Federal	Federal	GW	P
SHEEP WASH FED 11-25-9-18	25	090S	180E	4304739730	17266	Federal	Federal	GW	P
DESERT SPG FED 41-1-10-18	1	100S	180E	4304739773	17013	Federal	Federal	GW	P
FED 32-19X-9-19(RIGSKID)	19	090S	190E	4304740233	17014	Federal	Federal	GW	P
FEDERAL 23-30G-9-19	30	090S	190E	4304751280	18211	Federal	Federal	OW	P
FEDERAL 34-19G-9-19	19	090S	190E	4304751281	18210	Federal	Federal	OW	P
FEDERAL 442-30-9-19	30	090S	190E	4304752870	19647	Federal	Federal	GW	P
FEDERAL 333-30-9-19	30	090S	190E	4304752872	19648	Federal	Federal	GW	P
FEDERAL 423-30-9-19	30	090S	190E	4304753011	19649	Federal	Federal	GW	P
Desert Springs State 412-36-9-18	36	090S	180E	4304753324	19783	State	State	GW	P
Desert Springs State 424-36-9-18	36	090S	180E	4304753325	19783	State	State	GW	P
Desert Springs State 133-36-9-18	36	090S	180E	4304753326	19747	State	State	GW	P
Desert Spring State 142-36-9-18	36	090S	180E	4304753327	19747	State	State	GW	P
DESERT SPRINGS ST 422-36-9-18	36	090S	180E	4304753328	19783	State	State	GW	P
WILKIN RIDGE ST 31-32-10-17	32	100S	170E	4301332677	15144	State	State	GW	S
RBU 4-11D	11	100S	180E	4304730718	16269	Federal	Federal	OW	S

From: Gasco Production Company
To: Badlands Production Company
Effective Date: 4/16/2015

RBU 2-11D	11	100S	180E	4304730826	16270	Federal	Federal	OW	S
RBU 6-11D	11	100S	180E	4304731192	16271	Federal	Federal	OW	S
STATE 2-32B	32	090S	190E	4304732221	11371	State	State	GW	S
STATE 9-36A	36	090S	180E	4304732225	11364	State	State	GW	S
FEDERAL 13-30B	30	090S	190E	4304733581	13249	Federal	Federal	GW	S
STATE 13-36A	36	090S	180E	4304733598	17838	State	State	GW	S
FEDERAL 16-26A	26	090S	180E	4304733601	12928	Federal	Federal	GW	S
FEDERAL 31-29	29	090S	190E	4304733653	13077	Federal	Federal	GW	S
RBU 1-10D	10	100S	180E	4304734312	16265	Federal	Federal	OW	S
FEDERAL 13-18-9-19	18	090S	190E	4304739776	17149	Federal	Federal	GW	S

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-76482

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Desert Spring Fed 21-1-10-18

2. NAME OF OPERATOR: Gasco Production Company

9. API NUMBER: 4304737631

3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave. CITY Denver STATE CO ZIP 80237 PHONE NUMBER: (303) 483-0044

10. FIELD AND POOL, OR WILDCAT: Uteland Butte

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 0633 FNL 1512 FWL COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 1 10S 18E S STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
4/16/2015	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Gasco Production Company requests a change of operator on this well, in addition to the wells on the attached list from Gasco Production Company to Badlands Production Company, effective date of 4/16/2015.

Gasco Production Company
7979 E Tufts Ave, Suite 1150
Denver CO 80237
303-996-1805

Michael Decker, Exec. Vice President & COO

Badlands Production Company
7979 E Tufts Ave, Suite 1150
Denver CO 80237
303-996-1805

Michael Decker, Exec. Vice President & COO

RECEIVED
JUN 02 2015
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Lindsey Cooke TITLE Engineering Tech

SIGNATURE Lindsey Cooke DATE 5/18/2015

(This space for State use only)

APPROVED
JAN 22 2016
DIV. OIL GAS & MINING
BY: Rachel Medina

(5/2000) (See Instructions on Reverse Side)

Well Name	Section	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
FEDERAL 332-30-9-19	30	090S	190E	4304753012	19650	Federal	Federal	GW	DRL
WILKIN RIDGE FED 43-29-10-17	29	100S	170E	4301333098	15941	Federal	Federal	GW	OPS
LAMB TRUST 11-23-9-19	23	090S	190E	4304736915	16556	Fee	Fee	GW	OPS
SHEEP WASH FED 43-26-9-18	26	090S	180E	4304738573	17201	Federal	Federal	GW	OPS
FEDERAL 13-19-9-19	19	090S	190E	4304739777	18344	Federal	Federal	GW	OPS
FEDERAL 12-17-9-19	17	090S	190E	4304739800	17202	Federal	Federal	GW	OPS
GATE CYN 31-21-11-15	21	110S	150E	4301332391	13787	State	State	GW	P
WILKIN RIDGE ST 12-32-10-17	32	100S	170E	4301332447	14033	State	State	GW	P
GATE CYN 41-20-11-15	20	110S	150E	4301332475	14417	State	State	GW	P
WILKIN RIDGE FED 34-17-10-17	17	100S	170E	4301332560	14726	Federal	Federal	GW	P
GATE CYN 41-19-11-16	19	110S	160E	4301332611	14439	Federal	Federal	GW	P
WILKIN RIDGE ST 44-32-10-17	32	100S	170E	4301332619	15649	State	State	GW	P
WILKIN RIDGE FED 12-4-11-17	4	110S	170E	4301332674	15537	Federal	Federal	GW	P
WILKIN RIDGE ST 24-32-10-17	32	100S	170E	4301332676	15242	State	State	GW	P
WILKIN RIDGE FED 23-29-10-17	29	100S	170E	4301332679	14033	Federal	Federal	GW	P
GATE CYN ST 23-16-11-15	16	110S	150E	4301332685	16082	State	State	GW	P
WILKIN RIDGE ST 34-16-10-17	16	100S	170E	4301332730	15243	State	State	GW	P
WILKIN RIDGE FED 31-29-10-17	29	100S	170E	4301332773	15370	Federal	Federal	GW	P
WILKIN RIDGE 32-08	8	110S	170E	4301332778	14802	Federal	Federal	GW	P
GATE CYN ST 23-16-11-16	16	110S	160E	4301332888	15098	State	State	GW	P
WILKIN RIDGE FED 24-20-10-17	20	100S	170E	4301333081	15714	Federal	Federal	GW	P
WILKIN RIDGE FED 32-20-10-17	20	100S	170E	4301333087	15807	Federal	Federal	GW	P
WILKIN RIDGE FED 14-4-11-17	4	110S	170E	4301333099	15920	Federal	Federal	GW	P
RYE PATCH FED 22-21	22	110S	140E	4301333437	16919	Federal	Federal	GW	P
RYE PATCH FED 24-21	24	110S	140E	4301333443	16367	Federal	Federal	GW	P
RBU 5-11D	11	100S	180E	4304730409	9005	Federal	Federal	OW	P
FEDERAL 7-25A	25	090S	180E	4304730624	9030	Federal	Federal	OW	P
RBU 6-2D	2	100S	180E	4304731190	7075	State	State	OW	P
NGC 33-18J	18	090S	190E	4304731200	6155	Federal	Federal	OW	P
RBU 13-2D	2	100S	180E	4304731280	16267	State	State	OW	P
RBU 16-3D	3	100S	180E	4304731352	16268	Federal	Federal	OW	P
RBU 10-11D	11	100S	180E	4304731357	7053	Federal	Federal	OW	P
RBU 8-10D	10	100S	180E	4304731364	4955	Federal	Federal	OW	P
RBU 15-3D	3	100S	180E	4304731539	9965	Federal	Federal	OW	P
RBU 12-12D	12	100S	180E	4304731651	10688	Federal	Federal	OW	P
RBU 2-10D	10	100S	180E	4304731801	10784	Federal	Federal	OW	P
RBU 3-15D	15	100S	180E	4304733600	13213	Federal	Federal	OW	P
RBU 3-12D	12	100S	180E	4304733739	14492	Federal	Federal	OW	P
STATE 7-36A	36	090S	180E	4304733741	14244	State	State	GW	P
FEDERAL 34-29	29	090S	190E	4304733750	13174	Federal	Federal	GW	P
FEDERAL 24-7 #1	7	100S	180E	4304733983	13182	Federal	Federal	GW	P
FEDERAL 23-29 #1	29	090S	190E	4304734111	13441	Federal	Federal	GW	P
FED 24-20-9-19	20	090S	190E	4304734168	14150	Federal	Federal	GW	P
FED 44-20-9-19	20	090S	190E	4304734169	14140	Federal	Federal	GW	P
FED 23-21-9-19	21	090S	190E	4304734199	13601	Federal	Federal	GW	P
FED 32-31-9-19	31	090S	190E	4304734201	13641	Federal	Federal	GW	P
FED 42-29-9-19	29	090S	190E	4304734202	13455	Federal	Federal	GW	P
PETES WASH 23-12 #1	12	100S	170E	4304734286	13492	Federal	Federal	GW	P
STATE 4-32B	32	090S	190E	4304734314	14440	State	State	GW	P
FED 14-18-2 #1	18	100S	180E	4304734539	13491	Federal	Federal	GW	P
FED 43-24-3 #1	24	100S	170E	4304734551	13726	Federal	Federal	GW	P
LYTHAM FED 22-22-9-19	22	090S	190E	4304734607	13640	Federal	Federal	GW	P
FED 11-21-9-19	21	090S	190E	4304734608	14151	Federal	Federal	GW	P
FED 22-30-10-18	30	100S	180E	4304734924	14280	Federal	Federal	GW	P
FEDERAL 43-30-9-19	30	090S	190E	4304735343	14202	Federal	Federal	GW	P
FED 11-22-9-19	22	090S	190E	4304735404	14203	Federal	Federal	GW	P
FED 42-21-9-19	21	090S	190E	4304735405	14928	Federal	Federal	GW	P
STATE 24-16-9-19	16	090S	190E	4304735588	14418	State	Federal	GW	P

FEDERAL 31-21-9-19	21	090S	190E	4304735606	14441	Federal	Federal	GW	P
FEDERAL 12-29-9-19	29	090S	190E	4304735614	14442	Federal	Federal	GW	P
FEDERAL 24-31-9-19	31	090S	190E	4304735623	14640	Federal	Federal	GW	P
FEDERAL 41-31-9-19	31	090S	190E	4304735624	14419	Federal	Federal	GW	P
LAMB TRUST 24-22-9-19	22	090S	190E	4304735732	14496	Fee	Fee	GW	P
LAMB TRUST 24-14-9-19	14	090S	190E	4304735733	14519	Fee	Fee	GW	P
FEDERAL 11-22-10-18	22	100S	180E	4304735808	15592	Federal	Federal	GW	P
FEDERAL 21-6-10-19	6	100S	190E	4304735844	14356	Federal	Federal	GW	P
DESERT SPRING ST 41-36-9-18	36	090S	180E	4304735845	14639	State	State	GW	P
STATE 12-32-9-19	32	090S	190E	4304735995	14871	State	State	GW	P
FEDERAL 12-20-9-19	20	090S	190E	4304736093	14976	Federal	Federal	GW	P
FEDERAL 32-20-9-19	20	090S	190E	4304736094	16120	Federal	Federal	GW	P
FEDERAL 23-30-9-19	30	090S	190E	4304736095	14872	Federal	Federal	GW	P
SHEEP WASH FED 34-26-9-18	26	090S	180E	4304736113	15096	Federal	Federal	GW	P
DESERT SPRING ST 23-36-9-18	36	090S	180E	4304736219	14738	State	State	GW	P
DESERT SPRING ST 21-36-9-18	36	090S	180E	4304736220	14763	State	State	GW	P
DESERT SPRING ST 12-36-9-18	36	090S	180E	4304736233	14764	State	State	GW	P
DESERT SPRING ST 43-36-9-18	36	090S	180E	4304736241	14992	State	State	GW	P
DESERT SPRING ST 34-36-9-18	36	090S	180E	4304736242	14716	State	State	GW	P
FEDERAL 14-31-9-19	31	090S	190E	4304736271	15884	Federal	Federal	GW	P
FEDERAL 12-31-9-19	31	090S	190E	4304736336	15086	Federal	Federal	GW	P
FEDERAL 21-31-9-19	31	090S	190E	4304736368	15605	Federal	Federal	GW	P
FEDERAL 23-31-9-19	31	090S	190E	4304736442	15715	Federal	Federal	GW	P
SHEEP WASH FED 43-25-9-18	25	090S	180E	4304736600	14977	Federal	Federal	GW	P
FEDERAL 43-19-9-19	19	090S	190E	4304736719	15186	Federal	Federal	GW	P
SHEEP WASH FED 21-25-9-18	25	090S	180E	4304736727	15475	Federal	Federal	GW	P
FEDERAL 21-30-9-19	30	090S	190E	4304736739	15476	Federal	Federal	GW	P
SHEEP WASH FED 23-25-9-18	25	090S	180E	4304736740	15213	Federal	Federal	GW	P
FEDERAL 23-19-9-19	19	090S	190E	4304736771	15355	Federal	Federal	GW	P
SHEEP WASH FED 41-25-9-18	25	090S	180E	4304736772	15338	Federal	Federal	GW	P
FEDERAL 41-30-9-19	30	090S	190E	4304736817	15212	Federal	Federal	GW	P
LAMB TRUST 34-22-9-19	22	090S	190E	4304736913	15187	Fee	Fee	GW	P
LAMB TRUST 14-14-9-19	14	090S	190E	4304736916	17012	Fee	Fee	GW	P
DESERT SPRING ST 33-36-9-18	36	090S	180E	4304737115	15011	State	State	GW	P
FEDERAL 14-17-9-19	17	090S	190E	4304737116	16163	Federal	Federal	GW	P
FEDERAL 34-18-9-19	18	090S	190E	4304737117	16275	Federal	Federal	GW	P
UTELAND ST 41-2-10-18	2	100S	180E	4304737132	15087	State	State	GW	P
UTELAND ST 43-2-10-18	2	100S	180E	4304737338	15365	State	State	GW	P
FEDERAL 41-19-9-19	19	090S	190E	4304737611	16311	Federal	Federal	GW	P
FEDERAL 32-30-9-19	30	090S	190E	4304737612	16051	Federal	Federal	GW	P
FEDERAL 12-30-9-19	30	090S	190E	4304737613	16052	Federal	Federal	GW	P
FEDERAL 21-19-9-19	19	090S	190E	4304737621	16253	Federal	Federal	GW	P
FEDERAL 14-18-9-19	18	090S	190E	4304737622	16264	Federal	Federal	GW	P
FEDERAL 34-30-9-19	30	090S	190E	4304737630	16557	Federal	Federal	GW	P
DESERT SPRING FED 21-1-10-18	1	100S	180E	4304737631	15961	Federal	Federal	GW	P
FEDERAL 12-1-10-18	1	100S	180E	4304737646	16023	Federal	Federal	GW	P
SHEEP WASH FED 14-25-9-18	25	090S	180E	4304737647	16121	Federal	Federal	GW	P
UTELAND ST 21-2-10-18	2	100S	180E	4304737676	16254	State	State	GW	P
UTELAND ST 12-2-10-18	2	100S	180E	4304737677	15806	State	State	GW	P
UTELAND ST 34-2-10-18	2	100S	180E	4304738028	16868	State	State	GW	P
FEDERAL 14-19-9-19	19	090S	190E	4304738336	16467	Federal	Federal	GW	P
FEDERAL 34-19-9-19	19	090S	190E	4304738337	16119	Federal	Federal	GW	P
SHEEP WASH FED 41-26-9-18	26	090S	180E	4304738351	16884	Federal	Federal	GW	P
SHEEP WASH FED 32-25-9-18	25	090S	180E	4304738352	16349	Federal	Federal	GW	P
SHEEP WASH FED 34-25-9-18	25	090S	180E	4304738353	16210	Federal	Federal	GW	P
FEDERAL 12-19-9-19	19	090S	190E	4304738407	16236	Federal	Federal	GW	P
SHEEP WASH FED 23-26-9-18	26	090S	180E	4304738465	16558	Federal	Federal	GW	P
SHEEP WASH FED 12-25-9-18	25	090S	180E	4304738469	16449	Federal	Federal	GW	P
FEDERAL 23-18-9-19	18	090S	190E	4304738575	16312	Federal	Federal	GW	P

LAMB TRUST 34-22A-9-19	22	090S	190E	4304738673	15832	Fee	Fee	GW	P
UTELAND FED 42-11-10-18	11	100S	180E	4304738896	16792	Federal	Federal	GW	P
STATE 21-32B	32	090S	190E	4304739170	16309	State	State	GW	P
STATE 22-32A	32	090S	190E	4304739171	16308	State	State	GW	P
STATE 21-32A	32	090S	190E	4304739172	16310	State	State	GW	P
FEDERAL 11-19-9-19	19	090S	190E	4304739717	17054	Federal	Federal	GW	P
SHEEP WASH FED 31-25-9-18	25	090S	180E	4304739729	17241	Federal	Federal	GW	P
SHEEP WASH FED 11-25-9-18	25	090S	180E	4304739730	17266	Federal	Federal	GW	P
DESERT SPG FED 41-1-10-18	1	100S	180E	4304739773	17013	Federal	Federal	GW	P
FED 32-19X-9-19(RIGSKID)	19	090S	190E	4304740233	17014	Federal	Federal	GW	P
FEDERAL 23-30G-9-19	30	090S	190E	4304751280	18211	Federal	Federal	OW	P
FEDERAL 34-19G-9-19	19	090S	190E	4304751281	18210	Federal	Federal	OW	P
FEDERAL 442-30-9-19	30	090S	190E	4304752870	19647	Federal	Federal	GW	P
FEDERAL 333-30-9-19	30	090S	190E	4304752872	19648	Federal	Federal	GW	P
FEDERAL 423-30-9-19	30	090S	190E	4304753011	19649	Federal	Federal	GW	P
Desert Springs State 412-36-9-18	36	090S	180E	4304753324	19783	State	State	GW	P
Desert Springs State 424-36-9-18	36	090S	180E	4304753325	19783	State	State	GW	P
Desert Springs State 133-36-9-18	36	090S	180E	4304753326	19747	State	State	GW	P
Desert Spring State 142-36-9-18	36	090S	180E	4304753327	19747	State	State	GW	P
DESERT SPRINGS ST 422-36-9-18	36	090S	180E	4304753328	19783	State	State	GW	P
WILKIN RIDGE ST 31-32-10-17	32	100S	170E	4301332677	15144	State	State	GW	S
SQUAW CROSSING U 5	2	100S	180E	4304730129	16266	State	State	OW	S
RBU 4-11D	11	100S	180E	4304730718	16269	Federal	Federal	OW	S
RBU 2-11D	11	100S	180E	4304730826	16270	Federal	Federal	OW	S
RBU 6-11D	11	100S	180E	4304731192	16271	Federal	Federal	OW	S
STATE 2-32B	32	090S	190E	4304732221	11371	State	State	GW	S
STATE 9-36A	36	090S	180E	4304732225	11364	State	State	GW	S
FEDERAL 13-30B	30	090S	190E	4304733581	13249	Federal	Federal	GW	S
STATE 13-36A	36	090S	180E	4304733598	17838	State	State	GW	S
FEDERAL 16-26A	26	090S	180E	4304733601	12928	Federal	Federal	GW	S
FEDERAL 31-29	29	090S	190E	4304733653	13077	Federal	Federal	GW	S
RBU 1-10D	10	100S	180E	4304734312	16265	Federal	Federal	OW	S
FEDERAL 13-18-9-19	18	090S	190E	4304739776	17149	Federal	Federal	GW	S