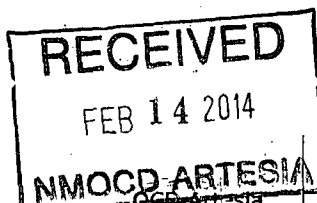


R-111-POTASH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER



FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

TCS
2-17-2014

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. SHL: NM-114978 BHL: NM-0532769
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator STRATA PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. DRAWER 1030 ROSWELL, NM 88202-1030		8. Lease Name and Well No. ROADRUNNER FED COM #4H <38771>
3b. Phone No. (include area code) 575-622-1127		9. API Well No. 30-015-42080
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1980 FNL & 900 FEL At proposed prod. zone 2310 FSL & 2310 FEL		10. Field and Pool, or Exploratory FORTYNINER RIDGE DELAWARE <24750>
14. Distance in miles and direction from nearest town or post office* 14 MILES EAST OF LOVING, NM		11. Sec., T. R. M. or Blk. and Survey or Area SHL: SEC 23, T23S-R30E BHL: SEC 14, T23S-R30E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 900' BHL: 2310'	16. No. of acres in lease NM114978 960 NM053276 320	17. Spacing Unit dedicated to this well 200 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL 150' BHL 1790'	19. Proposed Depth TVD 7665' MD 12140'	20. BLM/BIA Bond No. on file NM-1538
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL 3255	22. Approximate date work will start* 02/01/2014	23. Estimated duration 30 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must 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 must 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 BLM.

25. Signature 	Name (Printed/Typed) PAUL RAGSDALE	Date 09/13/2013
Title Operations Manager		
Approved by (Signature) FOR 	Name (Printed/Typed) STATE DIRECTOR	Date JAN 31 2014
Title STATE DIRECTOR		
Office NM STATE OFFICE		

Application approval does not warrant or certify that 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.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

*(Instructions on page 2)

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

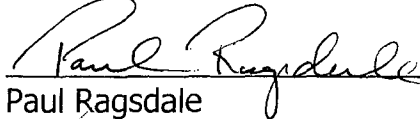
The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Date: June 13, 2012

Legal Description: Section 23-T23S-R30E
EDDY County, New Mexico

Formation(s): Permian
Bond Coverage: Statewide
BLM Bond File #: NM-1538

STRATA PRODUCTION COMPANY


Paul Ragsdale
Operations Manager

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-8161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-42080	Pool Code 24750	Pool Name FortyNiner Ridge Delaware
Property Code 38771	Property Name ROADRUNNER FEDERAL COM	Well Number 4H
GRID No. 21712	Operator Name STRATA PRODUCTION CO.	Elevation 3255'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	23 S	30 E		1980	NORTH	900	EAST	EDDY

Bottom Hole Location If Different From Surface

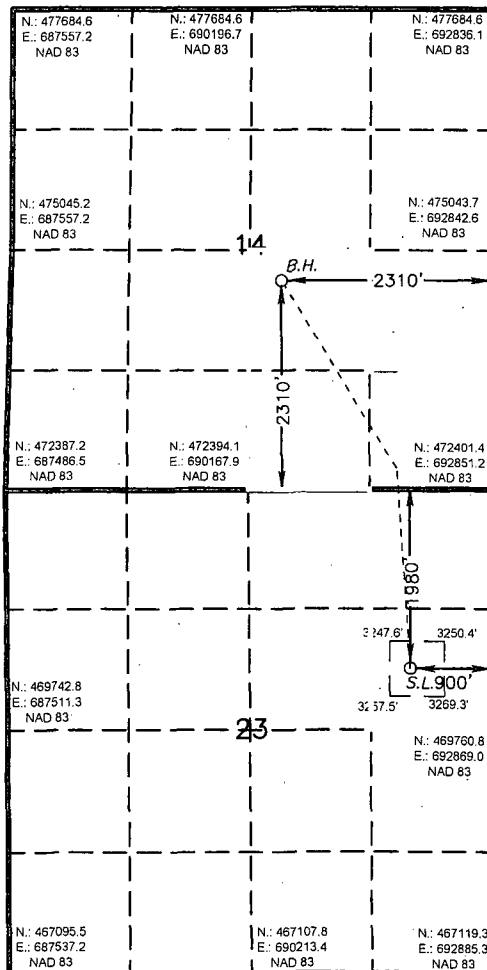
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	14	23 S	30 E		2310	SOUTH	2310	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
200			1-31 12140

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

BOTTOM HOLE LOCATION
Lat - N 32°18'14.81"
Long - W 103°51'01.58"
NAD83 - N 474705.1
E 690533.7
(NAD-83)

SURFACE LOCATION
Lat - N 32°17'32.29"
Long - W 103°50'45.24"
NAD83 - N 470419.6
E 691964.7
(NAD-83)



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Paul Ragsdale 08/02/13
Signature Date

Paul Ragsdale
Printed Name
pragsdale@stratanm.com
Email Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Surveyed
Signature and Seal of
Professional Surveyor

7977
Certificate No. Gary L. Jones 7977

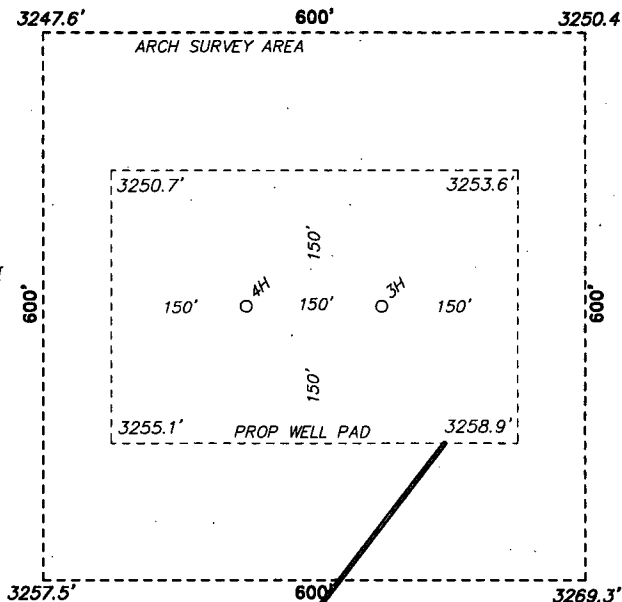
BASIN SURVEYS 28539

586627

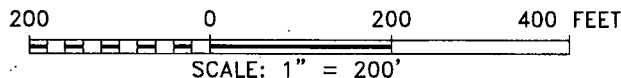
SECTION 23, TOWNSHIP 23 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

STRATA PRODUCTION CO.
ROADRUNNER FEDERAL COM 4H
ELEV. - 3255'

Lat - N 32°17'32.29"
Long - W 103°50'45.24"
NMSPCE- N 470419.6
E 691964.7
(NAD-83)



EXISTING LEASE ROAD



Directions to Location:

FROM THE JUNCTION OF HWY 128 AND MOBLEY, GO
SOUTH ON MOBLEY FOR 0.5 MILES TO LEASE ROAD,
ON LEASE ROAD GO SOUTHEASTERLY 2.5 MILES
TURNING EAST 0.8 MILES TO PROPOSED LEASE ROAD.

STRATA PRODUCTION CO.

REF: ROADRUNNER FEDERAL COM 4H / WELL PAD TOPO

THE ROADRUNNER FEDERAL COM 4H LOCATED 1980'

FROM THE NORTH LINE AND 900' FROM THE EAST LINE OF

SECTION 23, TOWNSHIP 23 SOUTH, RANGE 30 EAST,

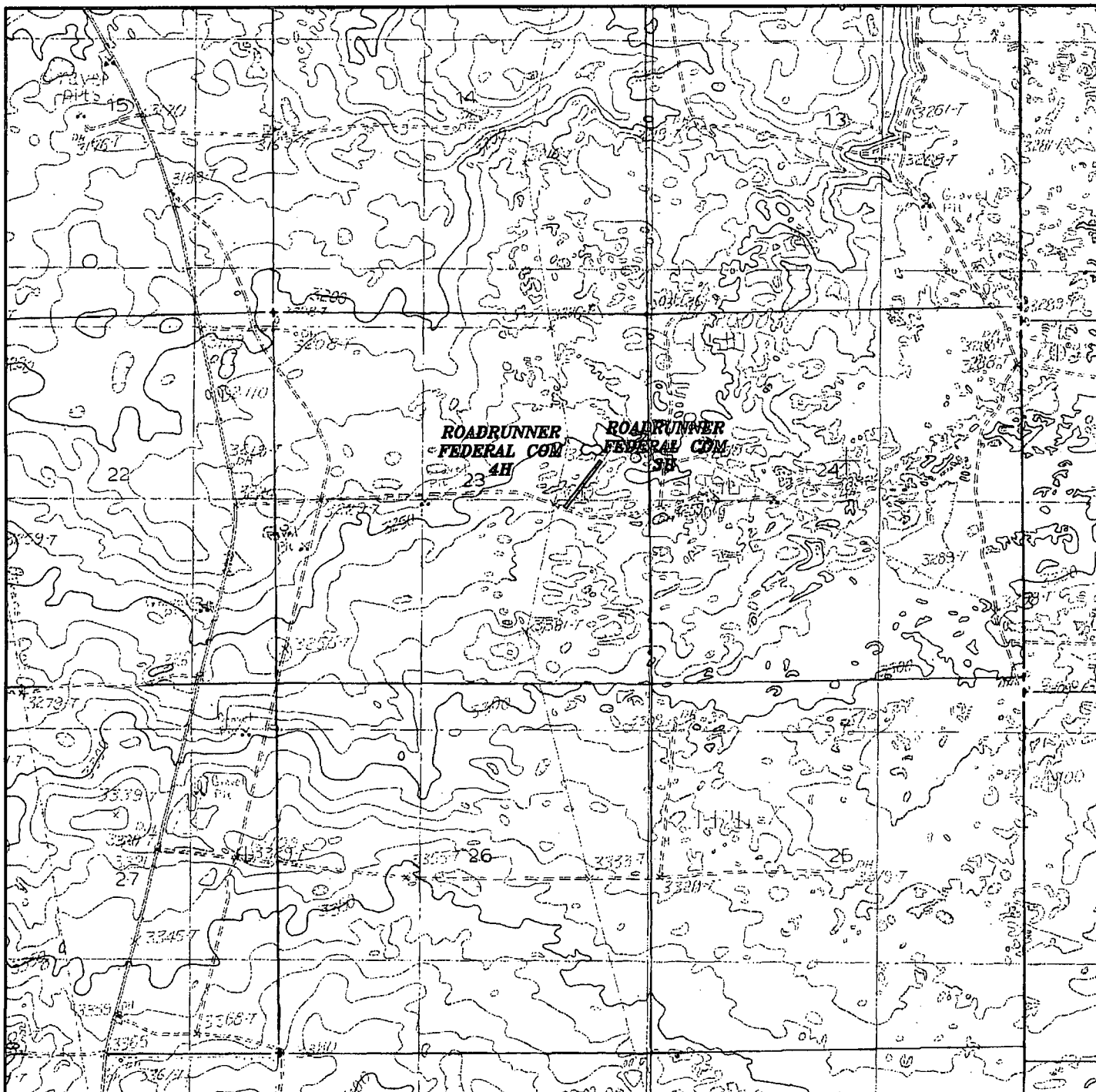
N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 28539 Drawn By: J. SMALL

Date: 06-03-2013 Disk: JMS 28539

Survey Date: 05-23-2013 Sheet 1 of 1 Sheets



ROADRUNNER FEDERAL COM 4H

Located 1980' FNL and 900' FEL

Section 23, Township 23 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

basin
surveys

focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: JMS 28539

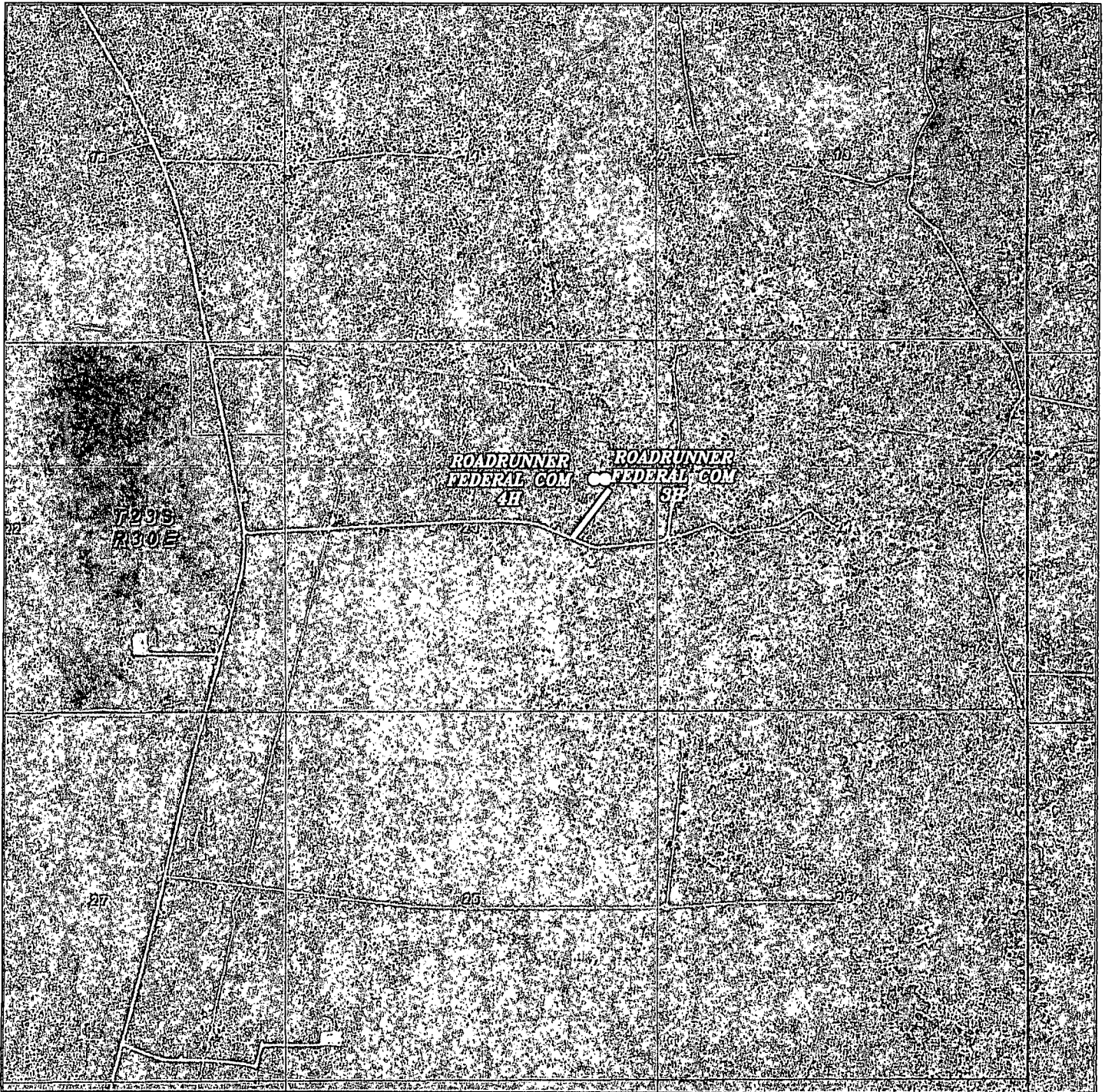
Survey Date: 05-23-2013

Scale: 1" = 2000'

Date: 06-03-2013

STRATA
PRODUCTION
CO.

EXHIBIT "B"



ROADRUNNER FEDERAL COM 4H
 Located 1980' FNL and 900' FEL
 Section 23, Township 23 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

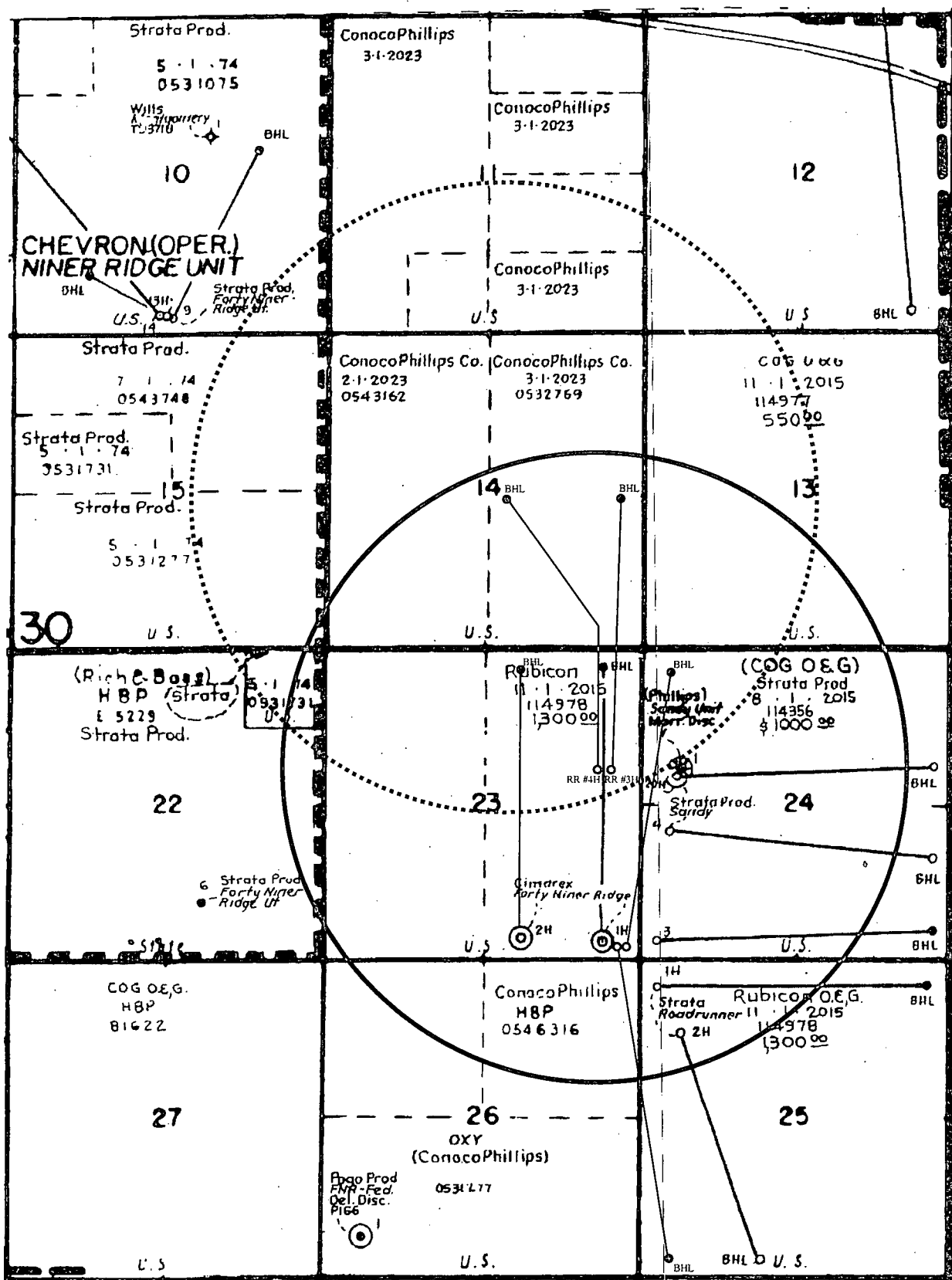
W.O. Number: JMS 28539

Scale: 1" = 2000'

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

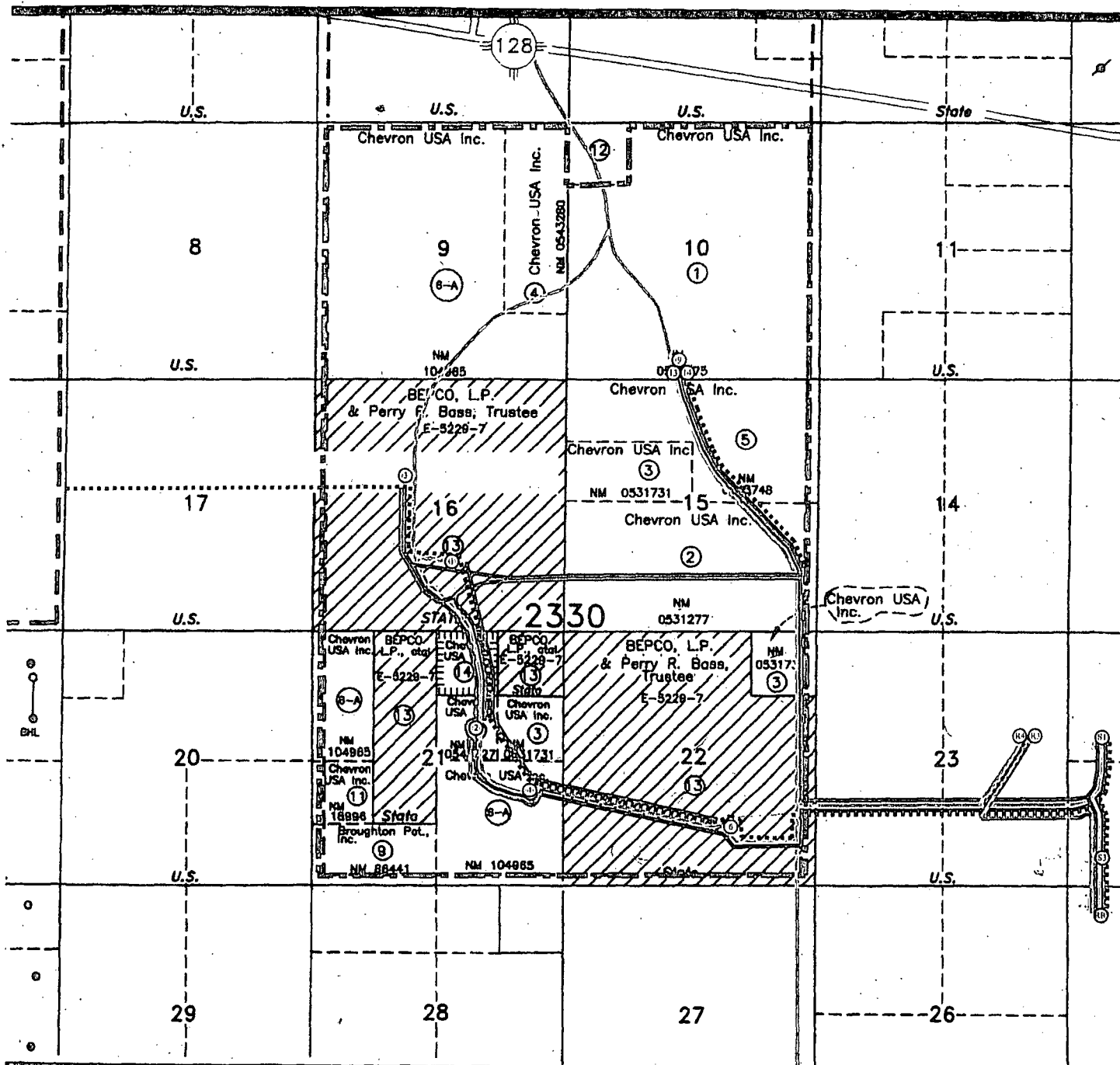
STRATA
PRODUCTION
CO.

EXHIBIT "C"
ONE MILE RADIUS MAP
ROADRUNNER FEDERAL COM #4H
 1980' FNL & 900' FEL
 SEC. 23 T23S-R30E
 EDDY COUNTY, NEW MEXICO



FORTY-NINER RIDGE UNIT AREA
 DELAWARE PARTICIPATING AREA
 T-23-S, R-30-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

Attachment 1



- | | | | |
|---|-----------------|---|---|
|  | = FEDERAL LAND |  | = PARTICIPATING AREA FOR THE DELAWARE FORMATION |
|  | = STATE LAND |  | ROADS |
|  | = PATENTED LAND |  | GAS FLOW LINE |
| | |  | PRODUCED WATER FLOW LINE |
| | |  | FLOW LINE |
| | |  | POWER LINE |
| | |  | WELL LOCATION |

9-30-2013

ATTACHMENT TO EXHIBIT "C"

STATUS OF WELLS WITHIN ONE MILE RADIUS

ROADRUNNER FEDERAL COM #4H

1980' FNL & 900' FEL

SEC. 23 T23S-R30E

EDDY COUNTY, NEW MEXICO

<u>Operator</u>	<u>Well</u>	<u>Location</u>	<u>Status/Formation</u>
Cimarex Energy	Fortyniner Ridge 23 #1H	Sec 23, T23S-R30E 330' FSL & 600' FEL	Producing/Bone Spring
Cimarex Energy	Fortyniner Ridge 23 #2H	Sec 23, T23S-R30E 390' FSL & 1980' FEL	Producing/Bone Spring
Cimarex Energy	Fortyniner Ridge 25 #1H	Sec 23, T23S-R30E 255' FSL & 250' FEL	Producing/Bone Spring
Cimarex Energy	Sandy Federal #20H	Sec 23, T23S-R30E 285' FSL & 250' FEL	Drilling/Bone Spring
Strata Production Co.	Sandy Federal #1	Sec 24, T23S-R30E 1980' FNL & 660' FWL	Producing/Delaware
Strata Production Co.	Sandy Federal #2	Sec 24, T23S-R30E 1979' FNL & 585' FWL	Proposed/Delaware
Strata Production Co.	Sandy Federal #3	Sec 24, T23S-R30E 330' FSL & 330' FWL	Proposed/Delaware
Strata Production Co.	Roadrunner Fed #1	Sec 25, T23S-R30E 460' FNL & 330' FWL	Producing/Delaware
Strata Production Co.	Roadrunner Fed #2	Sec 24, T23S-R30E 1220' FNL & 660' FWL	Proposed/Delaware

Attachment 4

REVISED 09/13/13

HOLE PROGNOSIS

FORM 3160-3 APPLICATION FOR PERMIT TO DRILL

STRATA PRODUCTION COMPANY

ROADRUNNER FEDERAL COM #4H

1980' FNL & 900' FEL

SECTION 23-23S-30E

EDDY COUNTY, NEW MEXICO

In conjunction with Form 3160-3, Application for Permit to Drill, Deepen, or Plug Back, Strata Production Company submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops:

	TVD	MD
Rustler	150'	150'
Top of Salt	470'	470'
Base of Salt	3659'	3659'
Delaware	3868'	3868'
KOP - curve	7187'	7187'
EOC	7665'	7937'
TD	7665'	12225'
Bone Spring	7738'	

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas & Drilling Plan:

Surface	150'	Fresh Water
Delaware	3900' - TD	Oil or Gas

No other formations are expected to produce oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at ~450' and circulating cement back to surface. Potash will be protected by setting 9 5/8" casing at ~2900' and circulating cement back to surface. A 8 3/4" hole will be drilled from the 9 5/8" casing shoe to the kick off point at 7187' and then curved to a target depth of 7665' in the Lower Brushy Canyon. The well will be drilled horizontally until TD is reached. A production string of 5 1/2" casing will be run to TD and cemented back to surface.

4. Casing Program:

	<u>Hole Size</u>	<u>Depth</u>	<u>OD Csg</u>	<u>Weight, Grade, Collars, New/Used</u>
Self COA	17 1/2"	450'	13 3/8"	48#, H-40, STC, New
	12 1/4"	3800' 3900'	9 5/8"	40#, J-55, STC, New
	8 3/4"	12140'	5 1/2"	20#, HCP-110, LTC/BTC, New

On the 5 1/2" casing BTC will be run through the curve from 7100' - 8000'.
Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Joint Strength 1.8

Cementing Program:

Surface Casing:

13 3/8" casing will be set at ~450' and cemented with 450 sacks Class C with 2% CaCl₂, 14.8 lb/gal, 1.34 cu.ft. yield, 6.34 gal/sk H₂O. Calculated with 100% excess. Cement in sufficient quantity to circulate to surface will be utilized.

Intermediate Casing: 9 5/8" casing will be set at ^{3800'}~~3900'~~ and cemented with 1100 sacks EconoCem HLC Cement with 5% Salt, 5 lb/bbl Kol-Seal plus 0.3% HR-800, 12.9 lb/gal, 1.88 cu.ft yield, 10.58 gal/sk H₂O. 250 sacks tail of Class C Cement 14.8 lb/gal, 1.33 yield, 6.32 gal/sk H₂P. Calculated with 100% excess. Cement in sufficient quantity to circulate to surface will be utilized.

Production Casing:

It is proposed that 5 1/2" casing will be run from the surface to the total depth of the well at 12140' and cemented with 1250 sx of (35:65) Poz (Fly Ash):Class H Cement + 4% bwoc Bentonite + 5% bwoc MPA-5 + 0.2% bwoc FL-52 + 0.3% bwoc Sodium Metasilicate + 5% bwow Sodium Chloride + 5 lbs/sack LCM-1 + 0.005 lbs/sack Static Free + 1 gals/100 sack FP-6L + 0.125 lbs/sack Cello Flake + 106.5% Fresh Water. 12.5 density, 2.19 yield, 11.1 gal/sk H₂O. 1000 sacks tail 50/50 Poz/Class H Cement + 0.3% bwoc FL-52 + 0.005 lbs/sack Static Free + 1 gals/100 sack FP-6L + 46.2% Fresh Water. 15.6 density, 1.21 yield, 5.21 gal/sk H₂O. Calculated with 50% excess in the open hole and 10% excess in the cased annulus. Cement volumes are sufficient to circulate cement to the surface but will be recalculated using a fluid caliper.

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit "A" will consist of a TWO ram type (3000 psi WP) preventer and a bag-type (hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4 1/2" drill pipe rams on bottom. Both BOP's will be nipped up on the 13 3/8" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 3000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000 psi and the hydril to 70% of rated working pressure (2100 psi). Low pressure tests at 250 psi will be conducted prior to the high pressure test.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 3" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 3000 psi WP rating.

24
COA
6. Proposed Mud System: 0-450' - fresh water with native mud sweeps, 8.4-8.9 lb/gal, LCM as needed
450'-^{2800'}~~3900'~~ **brine water** 10.0 lb/gal with LCM and gel sweeps
~~3900'~~^{3200'}-7200' Cut brine 8.9-9.2 lb/gal with LCM and gel sweeps
7200'-12140' Cut brine 8.9-9.2 lb/gal with sliders and gel sweeps
Sufficient mud materials to maintain weight, viscosity and combat lost circulation will be kept on location.

Mud Monitoring Equipment shall include equipment to monitor the circulation system which shall include but not be limited to daily records of pump speeds, visual mud monitoring equipment to detect volume changes such as pit volumes, electronic/mechanical monitoring equipment for pit volume totalizers, stroke counters and flow sensors. Daily mud tests to determine, as applicable, density, viscosity, gel strength, filtration and pH shall be conducted. Gas detecting equipment will be utilized below the intermediate casing. Gas flare lines and mud-gas separators will be utilized as necessary.

7. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- C. **Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 4 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.**

See
COA

8. Testing, Logging and Coring Program:

Two man mudlogging unit from 9 5/8" intermediate casing to TD and DLL-MSFL, CNL-Density, Gamma Ray, Caliper.

Mudlogging unit will be employed from approximately 3900' to TD. The Dual Laterolog will be run from TD back to the intermediate casing and the Compensated Neutron/Density and Gamma Ray logs will be run from TD back to surface. In some cases, Strata elects to run rotary sidewall cores from selected intervals dependent upon logging results.

9. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. BHT should not exceed 150 F and BHP should not exceed 3500 psi.

Loss of circulation is possible in the Delaware section of the hole, however, no major loss circulation zones have been reported in offsetting wells. Strata has drilled and completed eighteen (18) wells in the immediate area. To date, Hydrogen Sulfide has not been encountered. However, if Hydrogen Sulfide is encountered, a Hydrogen Sulfide alarm on the drilling rig would be activated. All personnel have had Hydrogen Sulfide training and appropriate breathing apparatus is located on site. If necessary, the well can be shut in utilizing the blowout preventer and other equipment to prevent the migration of Hydrogen Sulfide to the surface.

See
COA

10. Anticipated Starting Date and Duration of Operations:

Work will not begin until approval has been received from the BLM. The anticipated spud date is February 1, 2014. Once commenced, the drilling operation should be finished in approximately 30 days. If the well is productive, an additional 15 days will be required for completion and testing before a decision is made to install permanent facilities.

11. Proposed Completion and Fracturing Operations

Once the well has been drilled and casing is cemented, the well will be completed using the "plug and perf" method where perforations will be placed at defined intervals and each interval will be fracture stimulated. It is anticipated that this well will have 8 intervals and each interval will be fractured with 5000 bbls of gelled fresh water carrying 200,000 lbs of 16-30 resin coated sand.

Prior to the frac job, a Cement Bond Log/ Gamma Ray may be run to determine cement competency.

Flowback of the frac water will either be treated and reused or will be sent to deep underground injection.

11. Proposed Completion and Fracturing Operations

Once the well has been drilled and casing is cemented, the well will be completed **in the vertical and the horizontal lateral** using the "plug and perf" method where perforations will be placed at defined intervals and each interval will be fracture stimulated. It is anticipated that this well will have 8 intervals and each interval will be fractured with 5000 bbls of gelled fresh water carrying 200,000 lbs of 16-30 resin coated sand.

Prior to the frac job, a Cement Bond Log/ Gamma Ray may be run to determine cement competency.

Flowback of the frac water will either be treated and reused or will be sent to deep underground injection.



Weatherford®

Drilling Services

Proposal

STRATA PRODUCTION COMPANY

ROADRUNNER FEDERAL COM #4H

EDDY CO, NM

WELL FILE: **PLAN 1**

JULY 26, 2013

Weatherford International, Ltd.

P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

Strata Production Company

Roadrunner Federal Com #4H
Eddy Co., NM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7187.54	0.00	0.00	7187.54	0.00	0.00	0.00	0.00	0.00	
3	7937.54	90.00	1.00	7665.00	477.39	8.33	12.00	1.00	450.16	
4	8957.54	90.00	1.00	7665.00	1497.24	26.13	0.00	0.00	1411.83	
5	9857.54	90.00	325.00	7665.00	2343.82	-232.69	4.00	270.00	2296.81	
6	10424.21	90.00	325.00	7665.00	2808.01	-557.72	0.00	0.00	2840.06	
7	10578.27	90.00	329.62	7665.00	2937.63	-640.90	3.00	90.00	2989.36	
8	12140.64	90.00	329.62	7665.00	4285.50	-1431.00	0.00	0.00	4518.10	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Roadrunner Federal Com #4H	0.00	0.00	470419.60	691964.70	32°17'32.329N	103°50'45.148W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	7665.00	4285.50	-1431.00	474705.10	690533.70	Point

SITE DETAILS

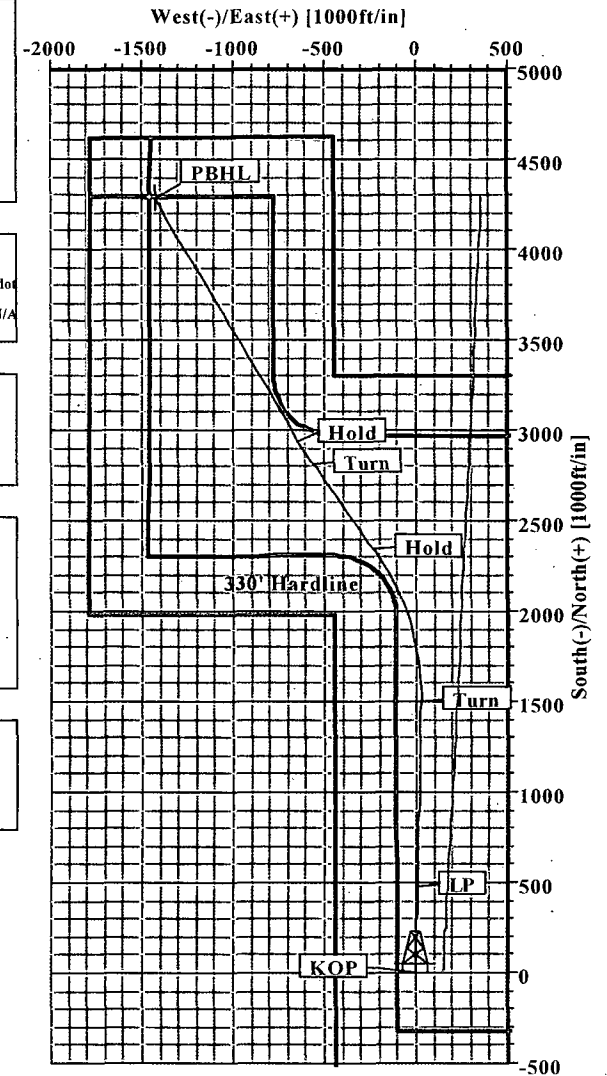
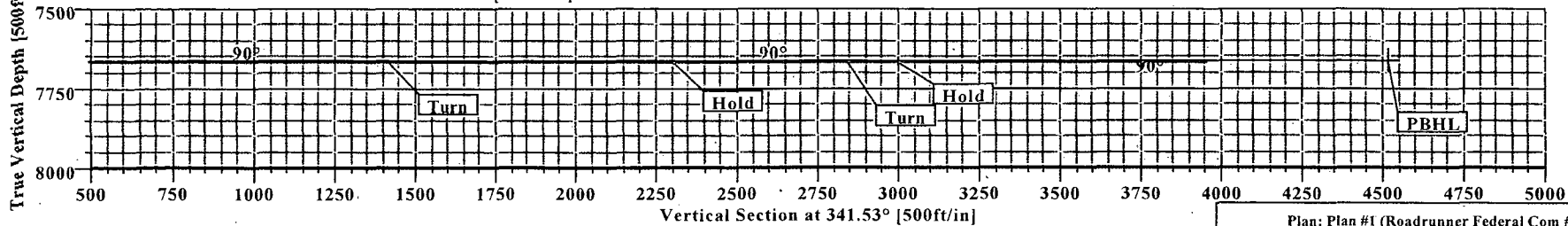
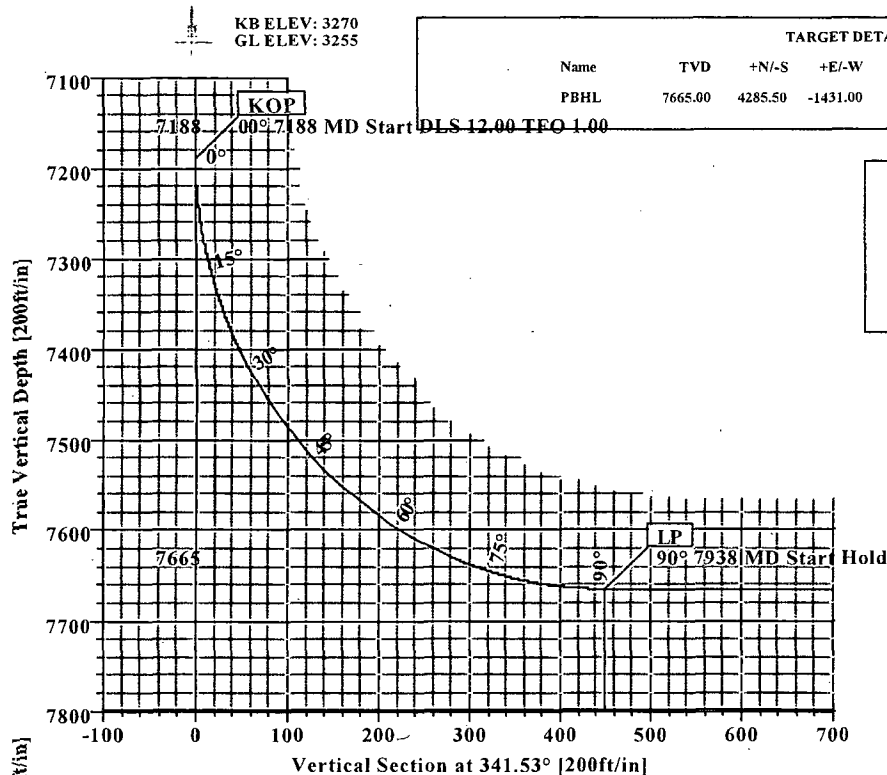
Roadrunner Federal Com #4H
Site Centre Northing: 470419.60
Easting: 691964.70
Ground Level: 3255.00
Positional Uncertainty: 0.00
Convergence: 0.26

LEGEND

- Roadrunner Federal Com #3H (1)
- Plan #1



Weatherford



Plan: Plan #1 (Roadrunner Federal Com #4H/1)

Created By: Russell W. Joyner

Date: 7/26/2013



Weatherford*

Company: Strata Production Company				Date: 7/26/2013		Time: 08:45:35		Page: 1	
Field: Eddy Co. NM (Nad.83)				Co-ordinate(NE) Reference: Well: Roadrunner Federal Com #4H					
Site: Roadrunner Federal Com #4H				Vertical (TVD) Reference: SITE 3270.0					
Well: Roadrunner Federal Com #4H				Section (VS) Reference: Well: 0.00N:0.00E:341.53Azi					
Wellpath: 1				Survey Calculation Method: Minimum Curvature Db: Sybase					

Plan: Plan #1		Date Composed: 7/26/2013	
Principal: Yes		Version: 1	
		Tied-to: From Surface	

Site: Roadrunner Federal Com #4H					
Site Position:		Northing: 470419.60 ft		Latitude: 32 17 32.329 N	
From: Map		Easting: 691964.70 ft		Longitude: 103 50 45.148 W	
Position Uncertainty: 0.00 ft				North Reference: Grid	
Ground Level: 3255.00 ft				Grid Convergence: 0.26 deg	

Well: Roadrunner Federal Com #4H				Slot Name:	
Well Position: +N/-S 0.00 ft		Northing: 470419.60 ft		Latitude: 32 17 32.329 N	
+E/-W 0.00 ft		Easting: 691964.70 ft		Longitude: 103 50 45.148 W	
Position Uncertainty: 0.00 ft					

Wellpath: 1				Drilled From: Surface	
Current Datum: SITE		Height 3270.00 ft		Tie-on Depth: 0.00 ft	
Magnetic Data: 6/15/2014				Above System Datum: Mean Sea Level	
Field Strength: 48353 nT				Declination: 7.35 deg	
Vertical Section: Depth From (TVD)		+N/-S		Mag Dip Angle: 60.13 deg	
ft		ft		+E/-W	
				Direction	
				deg	
0.00		0.00		0.00	
				341.53	

Plan Section Information										
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7187.54	0.00	0.00	7187.54	0.00	0.00	0.00	0.00	0.00	0.00	
7937.54	90.00	1.00	7665.00	477.39	8.33	12.00	12.00	0.00	1.00	
8957.54	90.00	1.00	7665.00	1497.24	26.13	0.00	0.00	0.00	0.00	
9857.54	90.00	325.00	7665.00	2343.82	-232.69	4.00	0.00	-4.00	270.00	
10424.21	90.00	325.00	7665.00	2808.01	-557.72	0.00	0.00	0.00	0.00	
10578.27	90.00	329.62	7665.00	2937.63	-640.90	3.00	0.00	3.00	90.00	
12140.64	90.00	329.62	7665.00	4285.50	-1431.00	0.00	0.00	0.00	0.00	PBHL

Survey										
MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comments
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	470419.60	691964.70	
7187.54	0.00	0.00	7187.54	0.00	0.00	0.00	0.00	470419.60	691964.70	KOP
7200.00	1.50	1.00	7200.00	0.16	0.00	0.15	12.00	470419.76	691964.70	
7300.00	13.50	1.00	7298.96	13.18	0.23	12.43	12.00	470432.78	691964.93	
7400.00	25.50	1.00	7393.06	46.49	0.81	43.84	12.00	470466.09	691965.51	
7500.00	37.50	1.00	7478.17	98.63	1.72	93.00	12.00	470518.23	691966.42	
7600.00	49.50	1.00	7550.58	167.32	2.92	157.78	12.00	470586.92	691967.62	
7700.00	61.50	1.00	7607.13	249.57	4.36	235.33	12.00	470669.17	691969.06	
7800.00	73.50	1.00	7645.33	341.77	5.97	322.27	12.00	470761.37	691970.67	
7900.00	85.50	1.00	7663.53	439.90	7.68	414.80	12.00	470859.50	691972.38	

Weatherford

Wft Plan Report X Y's.



Weatherford

Company: Strata Production Company Field: Eddy Co. NM (Nad 83) Site: 1 Roadrunner Federal Com #4H Well: Roadrunner Federal Com #4H Wellpath: 1	Date: 7/26/2013 Time: 08:45:35 Page: 2 Co-ordinate(NE) Reference: Well: Roadrunner Federal Com #4H Vertical(TVD) Reference: SITE 3270.0 Section(VS) Reference: Well (0.00N;0.00E;341.53Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
---	---

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comments
8900.00	90.00	1.00	7665.00	1439.71	25.13	1357.58	0.00	471859.31	691989.83	
8957.54	90.00	1.00	7665.00	1497.24	26.13	1411.83	0.00	471916.84	691990.83	Turn
9000.00	90.00	359.30	7665.00	1539.70	26.25	1452.07	4.00	471959.30	691990.95	
9100.00	90.00	355.30	7665.00	1639.56	21.54	1548.29	4.00	472059.16	691986.24	
9200.00	90.00	351.30	7665.00	1738.86	9.88	1646.16	4.00	472158.46	691974.58	
9300.00	90.00	347.30	7665.00	1837.10	-8.68	1745.22	4.00	472256.70	691956.02	
9400.00	90.00	343.30	7665.00	1933.81	-34.05	1844.99	4.00	472353.41	691930.65	
9500.00	90.00	339.30	7665.00	2028.51	-66.10	1944.97	4.00	472448.11	691898.60	
9600.00	90.00	335.30	7665.00	2120.75	-104.68	2044.67	4.00	472540.35	691860.02	
9700.00	90.00	331.30	7665.00	2210.07	-149.60	2143.62	4.00	472629.67	691815.10	
9800.00	90.00	327.30	7665.00	2296.04	-200.64	2241.34	4.00	472715.64	691764.06	
9857.54	90.00	325.00	7665.00	2343.82	-232.69	2296.81	4.00	472763.42	691732.01	Hold
9900.00	90.00	325.00	7665.00	2378.60	-257.05	2337.52	0.00	472798.20	691707.65	
10000.00	90.00	325.00	7665.00	2460.52	-314.40	2433.38	0.00	472880.12	691650.30	
10100.00	90.00	325.00	7665.00	2542.43	-371.76	2529.25	0.00	472962.03	691592.94	
10200.00	90.00	325.00	7665.00	2624.35	-429.12	2625.12	0.00	473043.95	691535.58	
10300.00	90.00	325.00	7665.00	2706.27	-486.48	2720.98	0.00	473125.87	691478.22	
10400.00	90.00	325.00	7665.00	2788.18	-543.84	2816.85	0.00	473207.78	691420.86	
10424.21	90.00	325.00	7665.00	2808.01	-557.72	2840.06	0.00	473227.61	691406.98	Turn
10500.00	90.00	327.27	7665.00	2870.94	-599.95	2913.13	3.00	473290.54	691364.75	
10578.27	90.00	329.62	7665.00	2937.63	-640.90	2989.36	3.00	473357.23	691323.80	Hold
10600.00	90.00	329.62	7665.00	2956.38	-651.89	3010.62	0.00	473375.98	691312.81	
10700.00	90.00	329.62	7665.00	3042.65	-702.46	3108.47	0.00	473462.25	691262.24	
10800.00	90.00	329.62	7665.00	3128.92	-753.03	3206.32	0.00	473548.52	691211.67	
10900.00	90.00	329.62	7665.00	3215.19	-803.60	3304.17	0.00	473634.79	691161.10	
11000.00	90.00	329.62	7665.00	3301.47	-854.17	3402.02	0.00	473721.07	691110.53	
11100.00	90.00	329.62	7665.00	3387.74	-904.75	3499.86	0.00	473807.34	691059.95	
11200.00	90.00	329.62	7665.00	3474.01	-955.32	3597.71	0.00	473893.61	691009.38	
11300.00	90.00	329.62	7665.00	3560.28	-1005.89	3695.56	0.00	473979.88	690958.81	
11400.00	90.00	329.62	7665.00	3646.55	-1056.46	3793.41	0.00	474066.15	690908.24	
11500.00	90.00	329.62	7665.00	3732.82	-1107.03	3891.25	0.00	474152.42	690857.67	
11600.00	90.00	329.62	7665.00	3819.09	-1157.60	3989.10	0.00	474238.69	690807.10	
11700.00	90.00	329.62	7665.00	3905.36	-1208.17	4086.95	0.00	474324.96	690756.53	
11800.00	90.00	329.62	7665.00	3991.63	-1258.74	4184.80	0.00	474411.23	690705.96	
11900.00	90.00	329.62	7665.00	4077.90	-1309.31	4282.65	0.00	474497.50	690655.39	
12000.00	90.00	329.62	7665.00	4164.17	-1359.88	4380.49	0.00	474583.77	690604.82	
12100.00	90.00	329.62	7665.00	4250.44	-1410.45	4478.34	0.00	474670.04	690554.25	
12140.64	90.00	329.62	7665.00	4285.50	-1431.00	4518.10	0.00	474705.10	690533.70	PBHL

Targets

Name	Description Dip	TVD Dir ft	N/S ft	E/W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL		7665.00	4285.50	-1431.00	474705.10	690533.70	32 18 14.801 N	103 51 1.595 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Weatherford

Wft Plan Report X Y's.



Weatherford

Company: Strata Production Company	Date: 7/26/2013	Time: 08:45:35	Page: 3
Field: Eddy Co. NM (Nad 83)	Co-ordinate(NE) Reference: Well: Roadrunner Federal Com #4H		
Site: Roadrunner Federal Com #4H	Vertical (TVD) Reference: SITE 3270.0		
Well: Roadrunner Federal Com #4H	Section (VS) Reference: Well (0:00N;0:00E;341.53Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature Db: Sybase		

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Annotation

MD ft	TVD ft	
7187.54	7187.54	KOP
7937.54	7665.00	LP
8957.54	7665.00	Turn
9857.54	7665.00	Hold
10424.21	7665.00	Turn
10578.27	7665.00	Hold
12140.63	7665.00	PBHL

Weatherford Anticollision Report



Weatherford

Company: Strata Production Company	Date: 7/26/2013	Time: 08:17:45
Field: Eddy Co. NM, (Nad.83)		Page: 1
Reference Site: Roadrunner Federal Com #4H	Co-ordinate(NE) Reference: Well: Roadrunner Federal Com #4H	
Reference Well: Roadrunner Federal Com #4H	Vertical (TVD) Reference: SITE 3270.0	
Reference Wellpath:		Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
 Interpolation Method MD + Stations Interval: 100.00 ft
 Depth Range: 0.00 to 13456.76 ft
 Maximum Radius 10000.00 ft

Reference: Plan: Plan #1
 Error Model: ISCWSA Ellipse
 Scan Method: Closest Approach 3D
 Error Surface: Ellipse

Plan: Plan #1	Date Composed: 7/26/2013
Principal: Yes	Version: 1
	Tied-to: From Surface

Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Edge Distance ft	Separation Distance Factor	Warning
Roadrunner Federal	Roadrunner Federal	V0 Plan: Plan #1 V1	9000.00	8992.02	198.60 134.01	3.07	

Site: Roadrunner Federal Com #3H
 Well: Roadrunner Federal Com #3H
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Ctr-Ctr Edge Distance ft	Separation Distance Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.04	-0.10	150.10	150.10	78565.38	
100.00	100.00	98.00	98.00	0.10	0.09	90.04	-0.10	150.10	150.10	149.91	793.59
200.00	200.00	198.00	198.00	0.32	0.32	90.04	-0.10	150.10	150.10	149.46	235.97
300.00	300.00	298.00	298.00	0.55	0.54	90.04	-0.10	150.10	150.10	149.01	138.26
400.00	400.00	398.00	398.00	0.77	0.77	90.04	-0.10	150.10	150.10	148.56	97.78
500.00	500.00	498.00	498.00	0.99	0.99	90.04	-0.10	150.10	150.10	148.12	75.63
600.00	600.00	598.00	598.00	1.22	1.21	90.04	-0.10	150.10	150.10	147.67	61.66
700.00	700.00	698.00	698.00	1.44	1.44	90.04	-0.10	150.10	150.10	147.22	52.05
800.00	800.00	798.00	798.00	1.67	1.66	90.04	-0.10	150.10	150.10	146.77	45.03
900.00	900.00	898.00	898.00	1.89	1.89	90.04	-0.10	150.10	150.10	146.32	39.68
1000.00	1000.00	998.00	998.00	2.12	2.11	90.04	-0.10	150.10	150.10	145.87	35.46
1100.00	1100.00	1098.00	1098.00	2.34	2.34	90.04	-0.10	150.10	150.10	145.42	32.06
1200.00	1200.00	1198.00	1198.00	2.57	2.56	90.04	-0.10	150.10	150.10	144.97	29.25
1300.00	1300.00	1298.00	1298.00	2.79	2.79	90.04	-0.10	150.10	150.10	144.52	26.90
1400.00	1400.00	1398.00	1398.00	3.02	3.01	90.04	-0.10	150.10	150.10	144.07	24.89
1500.00	1500.00	1498.00	1498.00	3.24	3.24	90.04	-0.10	150.10	150.10	143.62	23.16
1600.00	1600.00	1598.00	1598.00	3.47	3.46	90.04	-0.10	150.10	150.10	143.17	21.66
1700.00	1700.00	1698.00	1698.00	3.69	3.69	90.04	-0.10	150.10	150.10	142.72	20.34
1800.00	1800.00	1798.00	1798.00	3.92	3.91	90.04	-0.10	150.10	150.10	142.27	19.17
1900.00	1900.00	1898.00	1898.00	4.14	4.14	90.04	-0.10	150.10	150.10	141.82	18.13
2000.00	2000.00	1998.00	1998.00	4.37	4.36	90.04	-0.10	150.10	150.10	141.37	17.20
2100.00	2100.00	2098.00	2098.00	4.59	4.59	90.04	-0.10	150.10	150.10	140.92	16.36
2200.00	2200.00	2198.00	2198.00	4.82	4.81	90.04	-0.10	150.10	150.10	140.47	15.59
2300.00	2300.00	2298.00	2298.00	5.04	5.04	90.04	-0.10	150.10	150.10	140.02	14.90
2400.00	2400.00	2398.00	2398.00	5.27	5.26	90.04	-0.10	150.10	150.10	139.57	14.26
2500.00	2500.00	2498.00	2498.00	5.49	5.49	90.04	-0.10	150.10	150.10	139.12	13.68
2600.00	2600.00	2598.00	2598.00	5.71	5.71	90.04	-0.10	150.10	150.10	138.68	13.14
2700.00	2700.00	2698.00	2698.00	5.94	5.93	90.04	-0.10	150.10	150.10	138.23	12.64
2800.00	2800.00	2798.00	2798.00	6.16	6.16	90.04	-0.10	150.10	150.10	137.78	12.18
2900.00	2900.00	2898.00	2898.00	6.39	6.38	90.04	-0.10	150.10	150.10	137.33	11.75
3000.00	3000.00	2998.00	2998.00	6.61	6.61	90.04	-0.10	150.10	150.10	136.88	11.35
3100.00	3100.00	3098.00	3098.00	6.84	6.83	90.04	-0.10	150.10	150.10	136.43	10.98
3200.00	3200.00	3198.00	3198.00	7.06	7.06	90.04	-0.10	150.10	150.10	135.98	10.63
3300.00	3300.00	3298.00	3298.00	7.29	7.28	90.04	-0.10	150.10	150.10	135.53	10.30
3400.00	3400.00	3398.00	3398.00	7.51	7.51	90.04	-0.10	150.10	150.10	135.08	9.99
3500.00	3500.00	3498.00	3498.00	7.74	7.73	90.04	-0.10	150.10	150.10	134.63	9.70

Weatherford

Anticollision Report



Weatherford

Company:	Strata Production Company	Date:	7/26/2013	Time:	08:17:45	Page:	2
Field:	Eddy Co. NM (Nad 83)	Co-ordinate(NE) Reference:	Well: Roadrunner Federal Com #4H				
Reference Site:	Roadrunner Federal Com #4H	Vertical (TVD) Reference:	SITE 3270.0				
Reference Well:	Roadrunner Federal Com #4H	Db:	Sybase				
Reference Wellpath:							

Site: Roadrunner Federal Com #3H
 Well: Roadrunner Federal Com #3H
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset		Semi-Major Axis		TFO-HS deg	Offset Location		Ctr-Ctr Edge Separation		Warning
		MD ft	TVD ft	Ref ft	Offset ft		North ft	East ft	Distance ft	Distance ft	
3600.00	3600.00	3598.00	3598.00	7.96	7.96	90.04	-0.10	150.10	150.10	134.18	9.43
3700.00	3700.00	3698.00	3698.00	8.19	8.18	90.04	-0.10	150.10	150.10	133.73	9.17
3800.00	3800.00	3798.00	3798.00	8.41	8.41	90.04	-0.10	150.10	150.10	133.28	8.92
3900.00	3900.00	3898.00	3898.00	8.64	8.63	90.04	-0.10	150.10	150.10	132.83	8.69
4000.00	4000.00	3998.00	3998.00	8.86	8.86	90.04	-0.10	150.10	150.10	132.38	8.47
4100.00	4100.00	4098.00	4098.00	9.09	9.08	90.04	-0.10	150.10	150.10	131.93	8.26
4200.00	4200.00	4198.00	4198.00	9.31	9.31	90.04	-0.10	150.10	150.10	131.48	8.06
4300.00	4300.00	4298.00	4298.00	9.54	9.53	90.04	-0.10	150.10	150.10	131.03	7.87
4400.00	4400.00	4398.00	4398.00	9.76	9.76	90.04	-0.10	150.10	150.10	130.58	7.69
4500.00	4500.00	4498.00	4498.00	9.99	9.98	90.04	-0.10	150.10	150.10	130.13	7.52
4600.00	4600.00	4598.00	4598.00	10.21	10.21	90.04	-0.10	150.10	150.10	129.68	7.35
4700.00	4700.00	4698.00	4698.00	10.43	10.43	90.04	-0.10	150.10	150.10	129.24	7.19
4800.00	4800.00	4798.00	4798.00	10.66	10.66	90.04	-0.10	150.10	150.10	128.79	7.04
4900.00	4900.00	4898.00	4898.00	10.88	10.88	90.04	-0.10	150.10	150.10	128.34	6.90
5000.00	5000.00	4998.00	4998.00	11.11	11.10	90.04	-0.10	150.10	150.10	127.89	6.76
5100.00	5100.00	5098.00	5098.00	11.33	11.33	90.04	-0.10	150.10	150.10	127.44	6.62
5200.00	5200.00	5198.00	5198.00	11.56	11.55	90.04	-0.10	150.10	150.10	126.99	6.49
5300.00	5300.00	5298.00	5298.00	11.78	11.78	90.04	-0.10	150.10	150.10	126.54	6.37
5400.00	5400.00	5398.00	5398.00	12.01	12.00	90.04	-0.10	150.10	150.10	126.09	6.25
5500.00	5500.00	5498.00	5498.00	12.23	12.23	90.04	-0.10	150.10	150.10	125.64	6.14
5600.00	5600.00	5598.00	5598.00	12.46	12.45	90.04	-0.10	150.10	150.10	125.19	6.03
5700.00	5700.00	5698.00	5698.00	12.68	12.68	90.04	-0.10	150.10	150.10	124.74	5.92
5800.00	5800.00	5798.00	5798.00	12.91	12.90	90.04	-0.10	150.10	150.10	124.29	5.82
5900.00	5900.00	5898.00	5898.00	13.13	13.13	90.04	-0.10	150.10	150.10	123.84	5.72
6000.00	6000.00	5998.00	5998.00	13.36	13.35	90.04	-0.10	150.10	150.10	123.39	5.62
6100.00	6100.00	6098.00	6098.00	13.58	13.58	90.04	-0.10	150.10	150.10	122.94	5.53
6200.00	6200.00	6198.00	6198.00	13.81	13.80	90.04	-0.10	150.10	150.10	122.49	5.44
6300.00	6300.00	6298.00	6298.00	14.03	14.03	90.04	-0.10	150.10	150.10	122.04	5.35
6400.00	6400.00	6398.00	6398.00	14.26	14.25	90.04	-0.10	150.10	150.10	121.59	5.27
6500.00	6500.00	6498.00	6498.00	14.48	14.48	90.04	-0.10	150.10	150.10	121.14	5.18
6600.00	6600.00	6598.00	6598.00	14.71	14.70	90.04	-0.10	150.10	150.10	120.69	5.10
6700.00	6700.00	6698.00	6698.00	14.93	14.93	90.04	-0.10	150.10	150.10	120.24	5.03
6800.00	6800.00	6798.00	6798.00	15.15	15.15	90.04	-0.10	150.10	150.10	119.79	4.95
6900.00	6900.00	6898.00	6898.00	15.38	15.38	90.04	-0.10	150.10	150.10	119.35	4.88
7000.00	7000.00	6998.00	6998.00	15.60	15.60	90.04	-0.10	150.10	150.10	118.90	4.81
7100.00	7100.00	7098.00	7098.00	15.83	15.82	90.04	-0.10	150.10	150.10	118.45	4.74
7187.54	7187.54	7185.54	7185.54	16.03	16.02	90.04	-0.10	150.10	150.10	118.05	4.68
7200.00	7200.00	7197.85	7197.84	16.05	16.05	89.06	0.01	150.11	150.10	118.00	4.68
7225.00	7224.96	7222.48	7222.45	16.11	16.10	89.10	1.18	150.16	150.14	117.92	4.66
7250.00	7249.82	7247.12	7246.96	16.16	16.16	89.14	3.61	150.28	150.21	117.89	4.65
7275.00	7274.51	7271.77	7271.33	16.22	16.21	89.19	7.30	150.46	150.33	117.90	4.64
7300.00	7298.96	7296.42	7295.48	16.27	16.26	89.24	12.25	150.70	150.48	117.95	4.63
7325.00	7323.11	7321.09	7319.35	16.32	16.32	89.29	18.43	151.00	150.67	118.04	4.62
7350.00	7346.88	7345.76	7342.88	16.38	16.37	89.35	25.85	151.36	150.91	118.16	4.61
7375.00	7370.22	7370.45	7366.01	16.43	16.42	89.40	34.47	151.78	151.18	118.33	4.60
7400.00	7393.06	7395.14	7388.66	16.49	16.47	89.46	44.28	152.26	151.48	118.53	4.60
7425.00	7415.33	7419.85	7410.79	16.54	16.53	89.52	55.25	152.79	151.83	118.76	4.59
7450.00	7436.98	7444.57	7432.34	16.60	16.59	89.58	67.35	153.38	152.21	119.02	4.59
7475.00	7457.95	7469.31	7453.23	16.66	16.65	89.64	80.56	154.03	152.62	119.32	4.58
7500.00	7478.17	7494.06	7473.43	16.72	16.71	89.71	94.84	154.72	153.07	119.64	4.58
7525.00	7497.60	7518.82	7492.87	16.79	16.77	89.77	110.16	155.47	153.55	119.99	4.57

Weatherford

Anticollision Report



Weatherford

Company: Strata Production Company	Date: 7/26/2013	Time: 08:17:45	Page: 3
Field: Eddy Co., NM (Nad:83)			
Reference Site: Roadrunner Federal Com #4H	Co-ordinate(NE) Reference: Well: Roadrunner Federal Com #4H		
Reference Well: Roadrunner Federal Com #4H	Vertical (TVD) Reference: SITE 3270.0		
Reference Wellpath:	Db: Sybase		

Site: Roadrunner Federal Com #3H
 Well: Roadrunner Federal Com #3H
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation	Warning
		MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance Factor	
7550.00	7516.18	7543.60	7511.50	16.86	16.85	89.83	126.48	156.26	154.07	120.36	4.57
7575.00	7533.85	7568.40	7529.27	16.94	16.92	89.89	143.75	157.10	154.61	120.75	4.57
7600.00	7550.58	7593.21	7546.13	17.03	17.00	89.96	161.93	157.99	155.18	121.15	4.56
7625.00	7566.31	7618.04	7562.03	17.12	17.09	90.02	180.97	158.92	155.78	121.57	4.55
7650.00	7581.01	7642.89	7576.93	17.22	17.19	90.08	200.83	159.88	156.40	122.00	4.55
7675.00	7594.62	7667.75	7590.79	17.32	17.29	90.14	221.45	160.89	157.05	122.44	4.54
7700.00	7607.13	7692.64	7603.56	17.44	17.40	90.20	242.78	161.93	157.72	122.88	4.53
7725.00	7618.48	7717.54	7615.21	17.56	17.52	90.26	264.76	163.00	158.41	123.33	4.52
7750.00	7628.64	7742.46	7625.70	17.69	17.65	90.31	287.33	164.10	159.12	123.78	4.50
7775.00	7637.60	7767.41	7635.01	17.83	17.79	90.37	310.45	165.22	159.85	124.23	4.49
7800.00	7645.33	7792.37	7643.10	17.98	17.93	90.42	334.03	166.37	160.59	124.68	4.47
7825.00	7651.80	7817.35	7649.95	18.14	18.09	90.47	358.02	167.54	161.34	125.12	4.45
7850.00	7657.00	7842.36	7655.54	18.31	18.25	90.52	382.36	168.72	162.11	125.55	4.43
7875.00	7660.91	7867.38	7659.86	18.48	18.42	90.57	406.98	169.92	162.88	125.98	4.41
7900.00	7663.53	7892.43	7662.87	18.67	18.60	90.61	431.81	171.13	163.66	126.39	4.39
7925.00	7664.84	7917.49	7664.58	18.86	18.79	90.65	456.79	172.35	164.44	126.80	4.37
7937.54	7665.00	7930.07	7664.94	18.95	18.88	90.67	469.35	172.96	164.83	127.00	4.36
8000.00	7665.00	7992.53	7665.00	19.47	19.40	90.69	531.73	175.99	166.78	127.92	4.29
8100.00	7665.00	8092.48	7665.00	20.41	20.32	90.67	631.57	180.86	169.90	129.18	4.17
8200.00	7665.00	8192.44	7665.00	21.46	21.35	90.66	731.40	185.72	173.02	130.21	4.04
8300.00	7665.00	8292.39	7665.00	22.60	22.49	90.65	831.23	190.58	176.14	131.05	3.91
8400.00	7665.00	8392.34	7665.00	23.84	23.70	90.64	931.06	195.44	179.26	131.72	3.77
8500.00	7665.00	8492.29	7665.00	25.14	24.99	90.63	1030.90	200.30	182.38	132.25	3.64
8600.00	7665.00	8592.24	7665.00	26.51	26.35	90.62	1130.73	205.16	185.50	132.65	3.51
8700.00	7665.00	8692.19	7665.00	27.92	27.75	90.61	1230.56	210.02	188.62	132.94	3.39
8800.00	7665.00	8792.14	7665.00	29.38	29.20	90.60	1330.40	214.88	191.73	133.15	3.27
8900.00	7665.00	8892.09	7665.00	30.88	30.69	90.59	1430.23	219.74	194.85	133.28	3.16
8957.54	7665.00	8949.61	7665.00	31.76	31.56	90.58	1487.67	222.54	196.65	133.32	3.11
9000.00	7665.00	8992.02	7665.00	32.38	32.21	90.58	1530.04	224.60	198.60	134.01	3.07
9100.00	7665.00	9091.54	7665.00	33.72	33.76	90.55	1629.44	229.44	208.16	140.68	3.08
9200.00	7665.00	9190.15	7665.00	35.00	35.31	90.52	1727.94	234.24	224.64	154.33	3.20
9300.00	7665.00	9287.38	7665.00	36.19	36.87	90.48	1825.04	238.97	247.95	174.90	3.39
9400.00	7665.00	9382.74	7665.00	37.30	38.41	90.44	1920.29	243.60	277.99	202.29	3.67
9500.00	7665.00	9475.77	7665.00	38.31	39.93	90.40	2013.21	248.13	314.61	236.38	4.02
9600.00	7665.00	9566.02	7665.00	39.22	41.41	90.36	2103.36	252.52	357.63	277.00	4.44
9700.00	7665.00	9653.05	7665.00	40.04	42.86	90.33	2190.28	256.75	406.84	323.95	4.91
9800.00	7665.00	9736.43	7665.00	40.74	44.25	90.30	2273.57	260.81	462.00	377.01	5.44
9857.54	7665.00	9782.60	7665.00	41.11	45.02	90.29	2319.69	263.05	496.34	410.21	5.76
9900.00	7665.00	9816.16	7665.00	41.91	45.59	90.28	2353.20	264.68	522.35	434.86	5.97
10000.00	7665.00	9895.19	7665.00	43.83	46.92	90.25	2432.14	268.53	583.62	492.88	6.43
10100.00	7665.00	9974.22	7665.00	45.79	48.26	90.22	2511.07	272.37	644.90	550.86	6.86
10200.00	7665.00	10053.25	7665.00	47.78	49.60	90.20	2590.01	276.21	706.17	608.80	7.25
10300.00	7665.00	10132.27	7665.00	49.79	50.95	90.19	2668.94	280.06	767.44	666.71	7.62
10400.00	7665.00	10211.30	7665.00	51.83	52.30	90.17	2747.88	283.90	828.72	724.59	7.96
10424.21	7665.00	10230.43	7665.00	52.33	52.63	90.17	2766.99	284.83	843.55	738.60	8.04
10500.00	7665.00	10291.24	7665.00	54.55	53.68	90.16	2827.72	287.79	888.79	780.57	8.21
10578.27	7665.00	10355.86	7665.00	56.71	54.79	90.15	2892.26	290.93	932.94	821.44	8.37
10600.00	7665.00	10374.05	7665.00	57.14	55.10	90.14	2910.43	291.81	944.83	832.58	8.42
10700.00	7665.00	10457.76	7665.00	59.19	56.55	90.14	2994.04	295.89	999.53	883.79	8.64
10800.00	7665.00	10541.47	7665.00	61.25	58.00	90.13	3077.65	299.96	1054.24	934.99	8.84
10900.00	7665.00	10625.18	7665.00	63.32	59.45	90.12	3161.26	304.03	1108.95	986.17	9.03

Weatherford

Anticollision Report



Weatherford

Company: Strata Production Company	Date: 7/26/2013	Time: 08:17:45	Page: 4
Field: Eddy Co, NM (Nad 83)			
Reference Site: Roadrunner Federal Com #4H	Co-ordinate(NE) Reference: Well: Roadrunner Federal Com #4H		
Reference Well: Roadrunner Federal Com #4H	Vertical (TVD) Reference: SITE 3270.0		
Reference Wellpath:	Db: Sybase		

Site: Roadrunner Federal Com #3H
 Well: Roadrunner Federal Com #3H
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge Separation		Warning		
MD	TVD	MD	TVD	Ref	Offset	FFO-HS	North	East	Distance		Distance	Factor
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft		ft	
11000.00	7665.00	10708.89	7665.00	65.41	60.91	90.12	3244.87	308.10	1163.65	1037.34	9.21	
11100.00	7665.00	10792.60	7665.00	67.50	62.37	90.11	3328.48	312.17	1218.36	1088.50	9.38	
11200.00	7665.00	10876.31	7665.00	69.59	63.83	90.11	3412.09	316.24	1273.06	1139.64	9.54	
11300.00	7665.00	10960.02	7665.00	71.70	65.30	90.10	3495.70	320.31	1327.77	1190.78	9.69	
11400.00	7665.00	11043.73	7665.00	73.81	66.76	90.10	3579.31	324.38	1382.48	1241.90	9.83	
11500.00	7665.00	11127.43	7665.00	75.93	68.23	90.10	3662.92	328.45	1437.18	1293.02	9.97	
11600.00	7665.00	11211.14	7665.00	78.06	69.70	90.09	3746.54	332.52	1491.89	1344.13	10.10	
11700.00	7665.00	11294.85	7665.00	80.19	71.18	90.09	3830.15	336.60	1546.59	1395.23	10.22	
11800.00	7665.00	11378.56	7665.00	82.32	72.65	90.09	3913.76	340.67	1601.30	1446.33	10.33	
11900.00	7665.00	11462.27	7665.00	84.46	74.13	90.08	3997.37	344.74	1656.01	1497.42	10.44	
12000.00	7665.00	11545.98	7665.00	86.61	75.61	90.08	4080.98	348.81	1710.71	1548.50	10.55	
12100.00	7665.00	11629.69	7665.00	88.75	77.09	90.08	4164.59	352.88	1765.42	1599.58	10.65	
12140.64	7665.00	11663.71	7665.00	89.63	77.69	90.08	4198.56	354.53	1787.65	1620.33	10.68	



Weatherford®

Weatherford Drilling Services

GeoDec v5.03

Report Date: July 26, 2013
Job Number: _____
Customer: Strata Production Company
Well Name: Roadrunner Federal Com #4H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: RWJ

US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 470419.600 USFT	Latitude 32.2917717 DEG
East/West 691964.700 USFT	Longitude -103.7121118 DEG
Grid Convergence: .33°	
Total Correction: +7.08°	

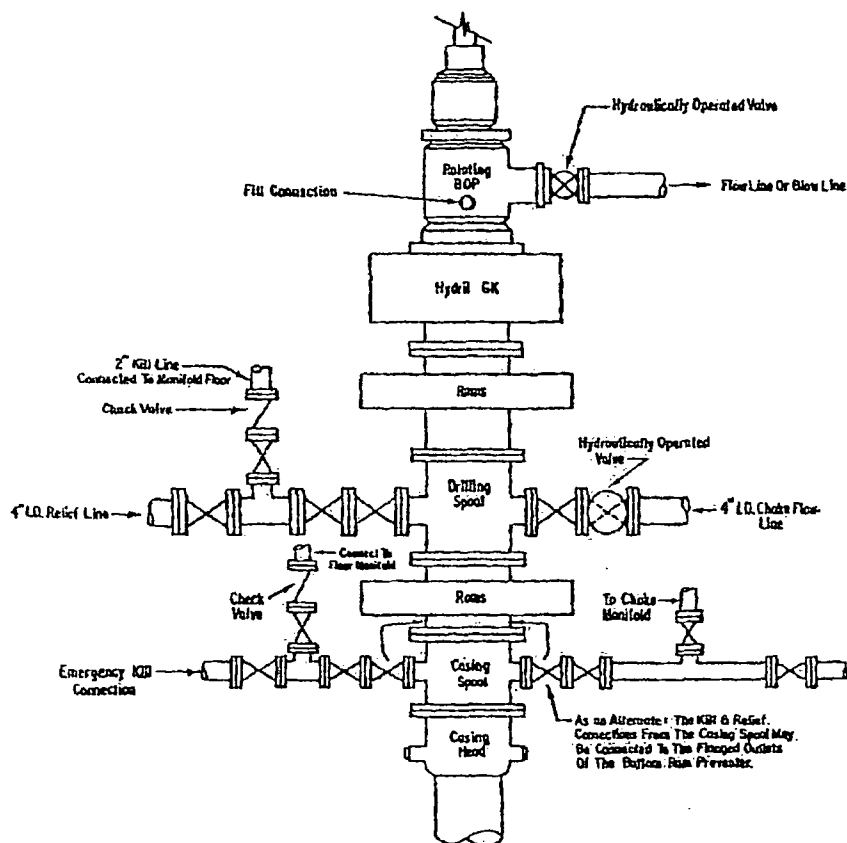
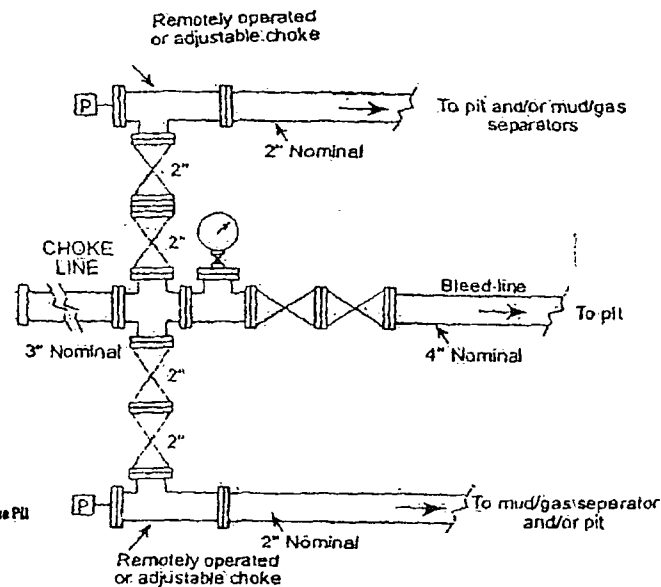
Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.29177° N	32° 17 min 30.378 sec
Longitude =	103.71211° W	103° 42 min 43.602 sec

Magnetic Declination =	7.41°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6547
Local Field Strength =	48342 nT	Magnetic Vector X = 23872 nT
Magnetic Dip =	60.14°	Magnetic Vector Y = 3103 nT
Magnetic Model =	bggm2013	Magnetic Vector Z = 41923 nT
Spud Date =	Jun 15, 2014	Magnetic Vector H = 24072 nT

Signed: _____

Date: _____

CHOKES MANIFOLD DETAIL

3000# PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one single type blind ram preventer and one single type pipe ram preventer, both hydraulically operated; a Hydril "GK" preventer; a rotating blowout preventer; valves; chokes and connections; as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and 4-inch I.D. relief line, except when air or gas drilling. All preventer connections are to be open-face flanged.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within _____ minutes. Also, the pumps are to be connected to the nitrogen precharge of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within _____ seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least _____ percent of the original. (3) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. If deemed necessary, walkways and stairways shall be erected in and around the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

EXHIBIT "A"

BLOWOUT PREVENTER EQUIPMENT DESCRIPTION

All equipment should be at least 3,000 psi WP or higher unless otherwise specified.

1. Bell nipple
2. Hydril bag type preventer
3. Ram type pressure operated blowout preventer with blind rams.
4. Flanged spool with one 3" and one 2" (minimum) outlet.
5. 2" (minimum) flanged plug or gate valve.
6. 2" x 2" x 2" (minimum) flanged.
7. 3" gate valve.
8. Ram type pressure operated blowout preventer with pipe rams.
9. Flanged type casing head with one side outlet.
10. 2" threaded (or flanged) plug or gate valve. Flanged on 5000# WP, threaded on 3000# WP or less.
11. 3" flanged spacer spool.
12. 3" x 2" x 2" x 2" flanged cross.
13. 2" flanged plug or gate valve.
14. 2" flanged adjustable choke.
15. 2" threaded flange.
16. 2" XXH nipple.
17. 2" forged steel 90° Ell.
18. Cameron (or equal) threaded pressure gauge.
19. Threaded flange.
20. 2" flanged tee.
21. 2" flanged plug or gate valve.
22. 2 1/2" pipe, 300' to pit, anchored.
23. 2 1/2" SE valve.
24. 2 1/2" line to steel pit or separator.

NOTES:

- 1). Items 3, 4 and 8 may be replaced with double ram type preventer with side outlets between the rams.
- 2). The two valves next to the stack on the fill and kill line to be closed unless drill string is being pulled.
- 3). Kill line is for emergency use only. This connection shall not be used for filling.
- 4). Replacement pipe rams and blind rams shall be on location at all times.
- 5). Only type U, LSW and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
- 6). Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.

Drilling Operations Choke Manifold

Roadrunner Federal Com #4H
1980' FNL & 900' FEL
Sec. 23, T23S-R30E
Eddy County, NM

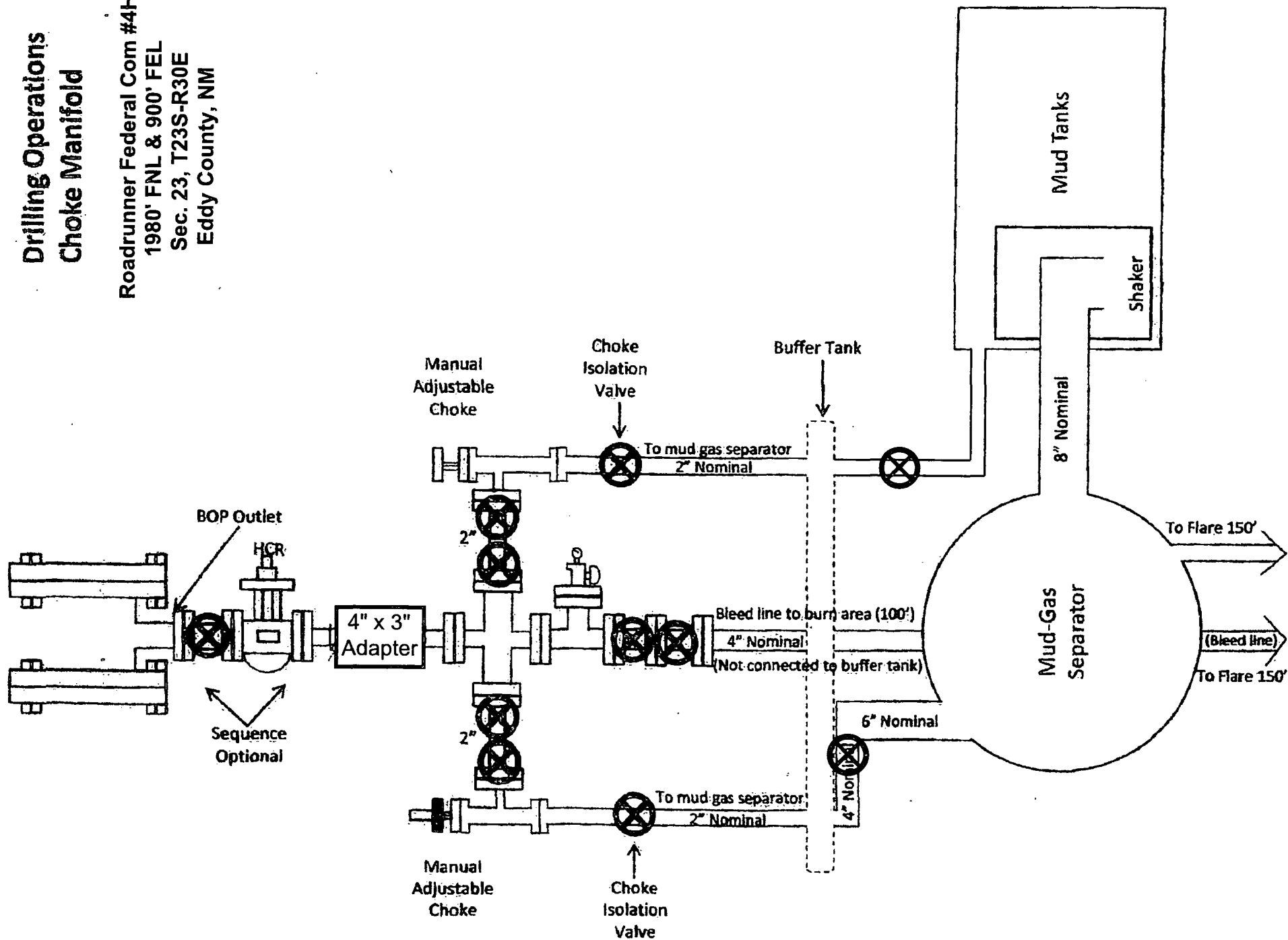
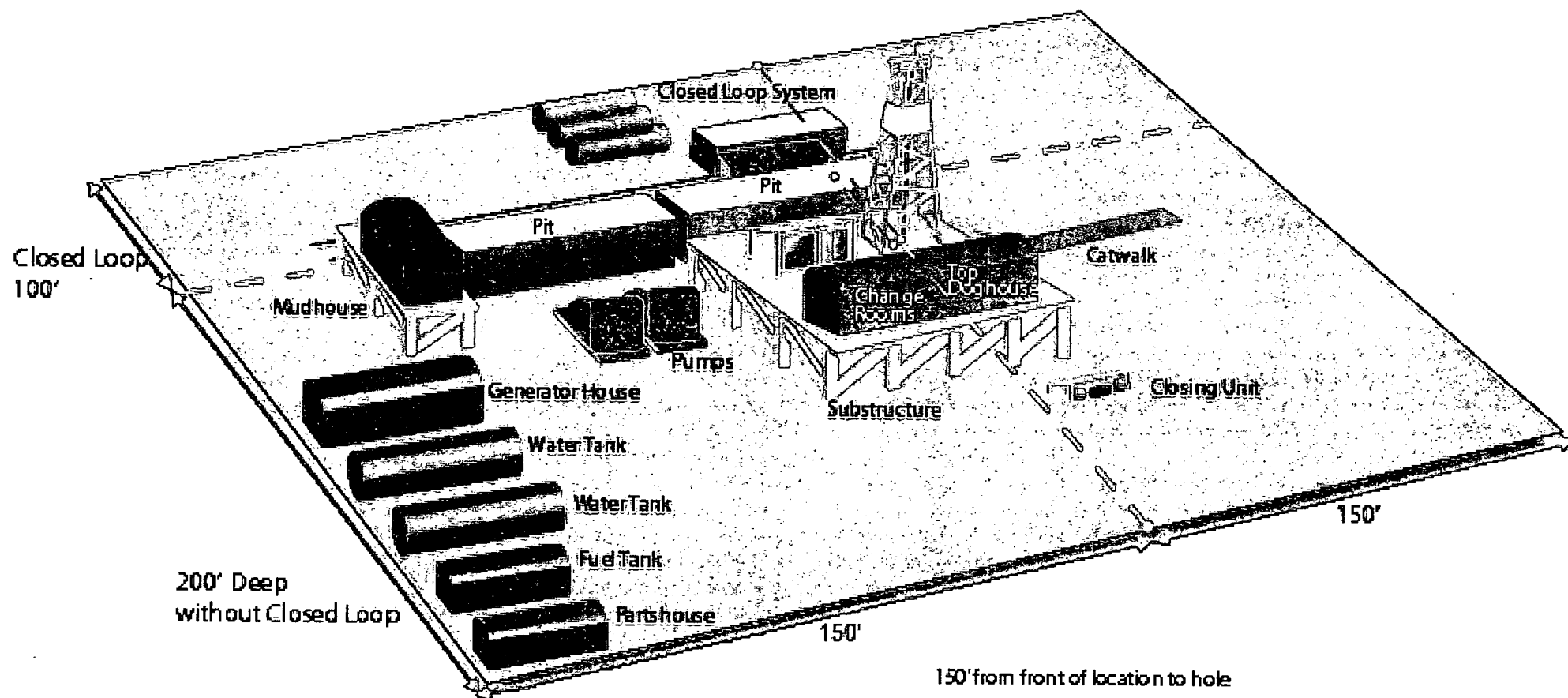


Exhibit "D"

Roadrunner Federal Com #4H

Typical Well Site Layout Plan



Location size without Closed Loop System
200' Deep X 325' Wide

Location size with Closed Loop System
300' Deep X 325' Wide

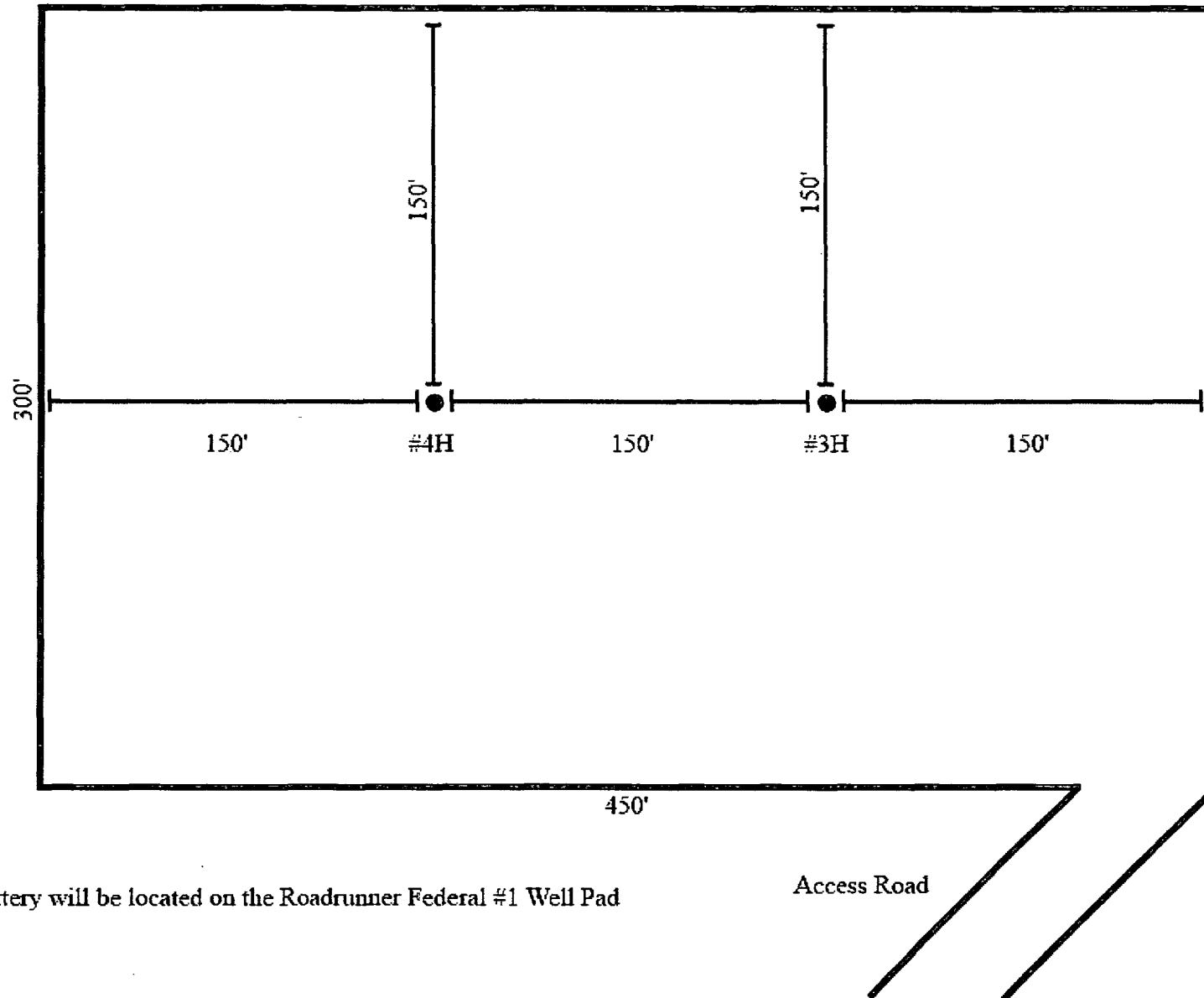
150' from front of location to hole

150' from left of location to hole

50' from hole to back of location (without closed loop)

150' from hole to back of location (with closed loop)

**Roadrunner Federal Com #4H
1980' FNL & 900' FEL
Sec. 23, T23S-R30E
Eddy County, NM**



* Tank Battery will be located on the Roadrunner Federal #1 Well Pad

Attachment 6

Strata Production Company

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide (H₂S).
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- D. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- A. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

- A. Well Control Equipment:
All BOP and BOP equipment is shown in the attachments.
Flare line.
Choke manifold with a remotely operated choke as shown in Attachment #5.
Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.
- B. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- C. H₂S detection and monitoring equipment:
2 - portable H₂S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 ppm are reached.
- D. Visual warning systems:

Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate.

Wind Direction indicators as seen in the H₂S Well Site Diagram.

E. Mud Program: The mud program has been designed to minimize the volume of H₂S circulated to the surface

F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

G. Communication:

Company vehicles equipped with cellular telephone.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED**
- 2. HARD HATS REQUIRED**
- 3. SMOKING IN DESIGNATED AREAS ONLY**
- 4. BE WIND CONSCIOUS AT ALL TIMES**
- 5. CK WITH STRATA FOREMAN AT MAIN OFFICE**

STRATA PRODUCTION COMPANY

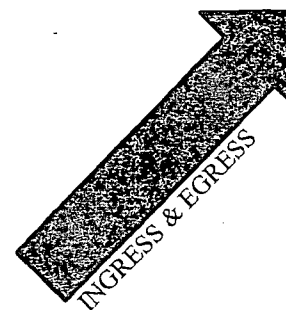
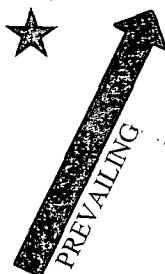
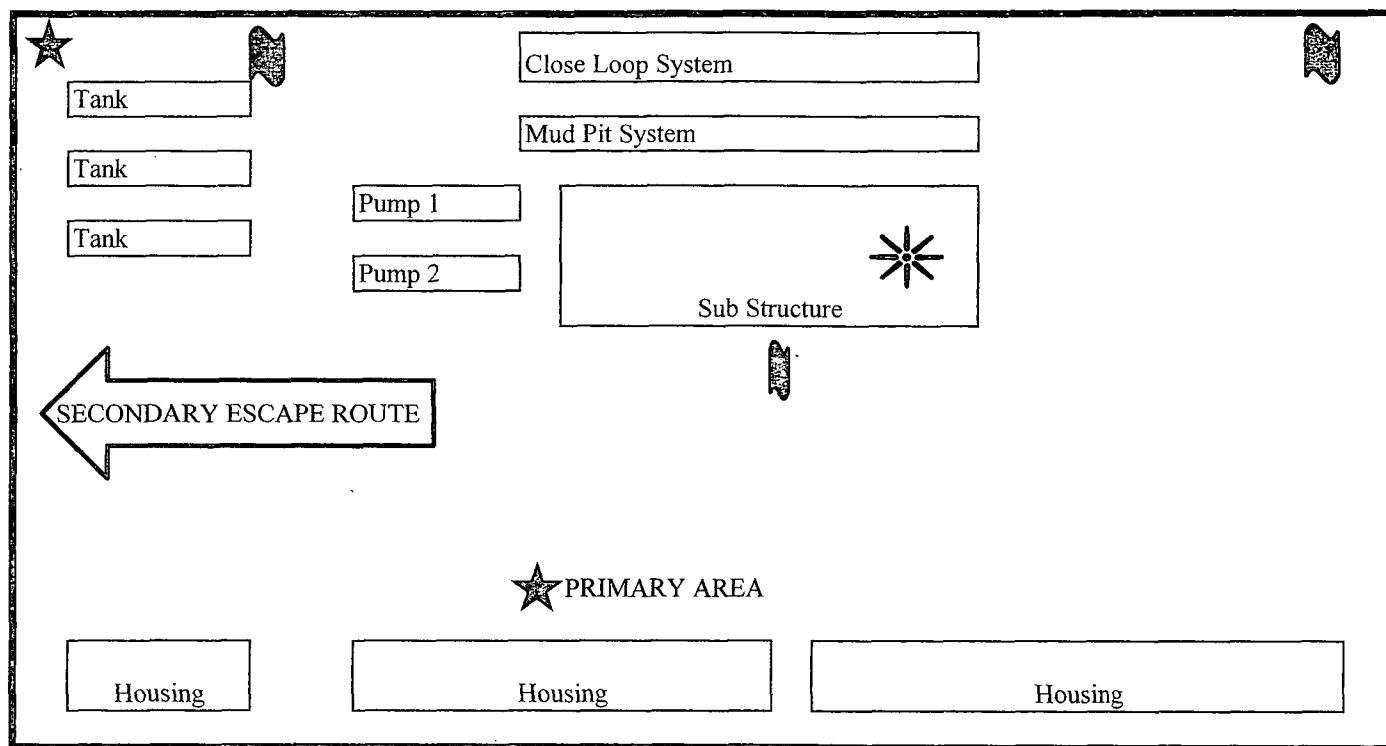
**575-622-1127 EXT 18
575-626-7909**

H2S WELL SITE DIAGRAM DRILL RIG ORIENTATION

STRATA PRODUCTION COMPANY
LOCATION PLAT
ROADRUNNER FEDERAL COM #3H $\frac{1}{4}$ $\frac{1}{4}$ 4 H
SEC 23-T23S-R30E



FLARE



SURFACE USE PLAN
APPLICATION FOR PERMIT TO DRILL
STRATA PRODUCTION COMPANY
ROADRUNNER FEDERAL COM #4H
1980' FNL & 900' FEL
SECTION 23-23S-30E
EDDY COUNTY, NEW MEXICO

Submitted with Form 3160-3, Application For Permit to Drill, Deepen, or Plug Back covering the above captioned well. The purpose of the plan is to describe the location, the proposed construction activities and operations plan, the surface disturbance involved, and the rehabilitation of the surface after completion of said well so that an appraisal can be made of the environment affected by the proposed well.

1. Location and Roads:

- A. The well site and elevation plat for the proposed well is attached. It was staked by Basin Surveys of Hobbs, New Mexico.
- B. This well is being drilled North of the existing access road to the Roadrunner and Sandy wells and a new road leading to the proposed location will be constructed as shown on Exhibit "B". Upgrading of the existing road will be done prior to drilling where necessary as determined during the on-site inspection.
- C. Directions to location: ~14 miles east from Loving, New Mexico and ~3 miles south of State Highway 128. Travel on 128 east to MM7. Turn south on CR-795, Mobley Ranch Rd. Stay left at the Y, go south another 1 ½ miles, turn left and follow caliche road for ~.75 miles to road turning north to location, ~1/4 mile.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. Location of Existing Wells:

Exhibit "C" shows all existing wells within a one mile radius of the proposed well and a list of these wells is shown on the attachment to Exhibit "C".

3. Location of Existing and/or Proposed Facilities:

Production facilities for this Drilling Island will be located on the RoadRunner Fed #1H in Section 25-T23S-R30E, which is on the same Federal lease as the communitized Roadrunner #3H & #4H therefore no offlease storage or commingling should be required. A flowline will be constructed from the new wells to the existing battery.

4. Location and Type of Water Supply:

The well will be drilled with a combination of brine and fresh water mud systems as outlined in the Hole Prognosis. The water will be purchased from commercial water stations in the area and trucked to the location by transport over the existing access roads shown in Exhibit "B". If a commercial fresh water source is nearby, pipeline may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

5. Source of Construction Materials:

All caliche required for extension of the drill pad will be obtained from an approved caliche pit. The pad will be constructed of 6" rolled and compacted caliche.

6. Methods of Handling Water Disposal:

A. If possible, this well will be drilled utilizing reserve pits and without a closed loop system. Fresh water is at a depth greater than 100'. If a closed loop system is utilized, drill cuttings not retained for evaluation purposes will be stored and then hauled to a state approved disposal facility. Drilling fluids will be contained in steel pits, cleaned and reused.

B. Water produced from the well during completion will be stored in steel tanks and disposed of in a state approved facility. After the well is permanently placed on production, produced water will be piped to the Forty Niner Ridge Unit #1 SWD well. Produced oil will be collected in steel tanks until sold.

C. A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations. Current laws and regulations pertaining to the disposal of human waste will be complied with.

E. Garbage and trash produced during drilling or completion operations will be disposed in a separate trash trailer on location. All waste material will be contained to prevent scattering by the wind. All other waste generated by the drilling, completion or testing of this well will be disposed of through the closed loop system. No toxic waste or hazardous chemicals will be produced by the operation.

F. After the rig is moved out and the well is either completed or

abandoned, all waste materials will be cleaned up within 30 days. No adverse materials will be left on the location. Only that part of the pad required for production facilities will be kept in use. In the event of a dry hole, only a dry hole marker will remain.

7. Ancillary Facilities:

No airstrip, campsite or other facility will be built as a result of the operations of the proposed well.

8. Well Site Layout:

A. The drill pad layout is shown in Exhibit "D". Dimensions of the pad and location of major rig components are shown. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. Since the pad is almost level no major cuts will be required.

B. Exhibit "D" shows the planned orientation for the rig and associated drilling equipment and closed loop system. No permanent living facilities are planned but a temporary foreman/toolpusher's trailer will also be on location during the drilling operations.

9. Plan for Restoration of the Surface:

A. Upon completion of the proposed operations, if the well is to be abandoned, the original top soil will be returned to the location and it will be leveled and contoured to as nearly the original topography as possible. All trash and garbage will be hauled away in order to leave the location in an aesthetically pleasing condition. The location will be leveled within 120 days after abandonment.

B. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.

C. Interim Reclamation: this location is inside the Potash Enclave and the location will be used as a future drilling island for multiple wells. Strata requests that the interim reclamation requirements be waived or extended until the drilling of multiple wells is complete. However, Strata is willing to propose that old wells that are operated by Strata that are outside the Potash Enclave be downsized.

Topsoil removed from the drill site will be used to recontour the unused portions of the drill pad to the original natural level and reseeded as per BLM specifications.

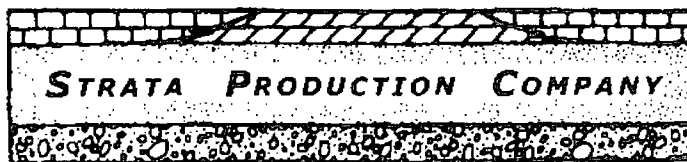
10. Surface Ownership:

The wellsite and lease is located entirely on Federal surface.

11. Other Information:

- A. The topography around the well site is rolling terrain with vegetation of sagebrush and native grass. The vegetation cover consists of prairie grasses and flowers. Wildlife in the area probably includes those typical of semi-arid desert land.
- B. The soils are clayey sand over caliche base.
- C. There are no permanent or live waters in the immediate area.
- D. There are no residences and other structures in the area.
- E. The land in the area is used primarily for grazing purposes.
- F. An archaeological study has been conducted for the location and is included in this packet.

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030



TELEPHONE (575) 622-1127
FACSIMILE (575) 623-3533

1301 NORTH SYCAMORE AVENUE
ROSWELL, NEW MEXICO 88201
www.stratanm.com

OPERATOR CERTIFICATION
Roadrunner Federal Com #4H

I hereby certify that I, or someone under my direct supervision, has inspected the drill 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 Strata Production Company, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

EXECUTED THIS _____ DAY OF _____, 2013

BY: _____
Paul Ragsdale

TITLE: Operations Manager

ADDRESS: Strata Production Company
PO Drawer 1030
Roswell, NM 88202-1030
575-622-1127

Agents not directly employed by the operator must submit a letter from the operator authorizing that agent to act or file this application on their behalf.