

14-25

OCD Hobbs

HOBBS OCD
JAN 29 2014

Form 3160-3
(March 2012)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. ----- <40064>
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. <i>COM 2H</i>
2. Name of Operator CAZA OPERATING. LLC. <249099>		WEST COPPERLINE 29 FED/STATE C
3a. Address 200 NORTH LORAIN SUITE 1550 MIDLAND, TEXAS 79701	3b. Phone No. (include area code) 432-682-7424	9. API Well No. #2H 30-025-41640
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 330' FNL & 660' FWL SECTION 29 T23S-R34E At proposed prod. zone 330' FSL & 660' FWL SECTION 29 T23S-R34E		10. Field and Pool, or Exploratory ANTELOPE RIDGE-BONE SPRING
14. Distance in miles and direction from nearest town or post office* Approximately 25 miles Northwest of Jal New Mexico		11. Sec., T. R. M. or Blk and Survey or Area SECTION 29 T23S-R34E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'	16. No. of acres in lease 560	17. Spacing Unit dedicated to this well 160 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1320'	19. Proposed Depth MD-15,889' TVD-11,475' Pilot hole 11,900'	20. BLM/BIA Bond No. on file NMB-000471
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3567' GL.	22. Approximate date work will start* WHEN APPROVED	23. Estimated duration 35 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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature <i>Joe T. Janica</i>	Name (Printed/Typed) Joe T. Janica	Date 12/28/13
Title Permit Eng.		
Approved by (Signature)	Name (Printed/Typed)	Date
		JAN 24 2014
Title FIELD MANAGER	Office CARLSBAD FIELD 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.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

FEB 03 2014

FM

APPLICATION TO DRILL
CAZA OPERATING, LLC.
WEST COPPERLINE 29 FED/STATE COM. #2H
UNIT "D" SECTION 29
T23S-R34E LEA CO. NM

In response to questions asked under Section II of Bulletin NTL-6, the following information on the above well will be provided.

1. LOCATION: SL: 330' FNL & 660' FWL SECTION 29 T23S-R34E LEA CO. NM
BHL: 330' FSL & 660' FWL SECTION 29 T23S-R34E LEA CO. NM
2. ELEVATION ABOVE SEA LEVEL: 3567' GL
3. GEOLOGICAL NAME OF SURFACE FORMATION: Quaternary Aeolian Deposits;
4. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using drilling mud as a circulating medium for the removal of solids.
5. PROPOSED DRILLING DEPTH: MD-15,889'
TVD-11,475'
6. ESTIMATED TOPS OF GEOLOGICAL FORMATIONS:

Rustler Anhydrite	1036'	Cherry Canyon	8016'
Top of Salt	1886'	Brushy Canyon	7286'
Castile	2936'	Bone Spring	8636'
Base of Salt	4856'	1st Bone Spring Sand	9741'
Lamar	4950'	2nd Bone Spring Sand	10,276'
Bell Canyon	5181'	3rd Bone Spring Sand	11,226'
		Wolfcamp	11,486'
7. POSSIBLE MINERAL BEARING FORMATIONS:

Bel Canyon	Oil/Gas/Water	2nd Bone Spring Sand	Oil/Gas/Water
Cherry Canyon	Oil/Gas/Water	3rd Bone Spring Sand	Oil/Gas/Water
Brushy Canyon	Oil/Gas/Water		
1st Bone Spring Sand	Oil/Gas/Water	Possible Fresh Water	250'±
8. CASING PROGRAM:

HOLE SIZE	INTERVAL	CASING OD	WEIGHT	THREAD	COLLAR	GRADE	CONDITION
26"	0-140'	20"	NA	NA	NA	NA	New
17½"	0-1060' 1175'	13 3/8"	54.5#	8-R	ST&C	J-55	New
12½"	0-5085'	9 5/8"	40#	8-R	LT&C	J-55	New
		9 5/8"	40#	8-R	LT&C	HCK-55	New
8 3/4"	0-15,889'	5½"	20#	8-R	LT&C	P-110	New

CASING SAFETY FACTORS: Collapse 1.125 Burst 1.00 Body Yield 1.5
Joint Strength 8-Round 1.8
Buttress 1.6

APPLICATION TO DRILL

CAZA OPERATING, LLC.
WEST COPPERLINE 29 FED/STATE COM. #2H
UNIT "D" SECTION 29
T23S-R34E LEA CO. NM

9. CASING SETTING DEPTHS & CEMENTING:

20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Run and set 1060' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 674 Sx. of Class "C" cement + 4% Gel, + 2% CaCl, 13.5 ppg, Yield 1.74, tail in with 200 Sx. of Class "C" cement + 2% CaCl 14.8 ppg Yield 1.32, 50% excess circulate cement to surface.
9 5/8"	Intermediate	Run and set 5085' of 9 5/8" 40# Casing as follows; 1085' of 9 5/8" 40# HCK-55 LT&C, 4000' of 9 5/8" 40# J-55 LT&C casing. Cement with 1053 Sx. of Class "C" cement + 5% Salt, + 6% Gel, 12.6 ppg, Yield 2.09, tail in with 200 Sx. of Class "C" cement + 1% CaCl, 14.8 ppg, Yield 1.32, 75% excess, circulate cement to surface.
5 1/2"	Production	Run and Set 15,880' of 5 1/2" 20# P-110 LT&C casing. Cement with 1481 Sx. of Class "H" 65/35 POZ + 1#/Sx Kol Seal/Sx. + retarder, 12.6 ppg, Yield 1.93, tail in with 609 Sx. of Class "H" SoluGem cement + fluid loss control, + Defoamer, 15.0 ppg Yield 2.61, 50% excess estimate top of cement 3800'.

See COA

* Pilot hole plug back. Set a 1000' cement plug back to 10,900' with 477 Sx. of Class "H" cement + fluid loss control and defoamer, 15.6 ppg Yield 1.8 35% excess. Drill out to KOP at 11,000'±.

10. PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 5000 PSI working pressure B.O.P. consisting of a packoff an annular bag type preventor, blind rams. and pipe rams. A 13 5/8" B.O.P. will be nipped up on the 13 3/8" surface casing and will remain on the well to TD. The B.O.P. will be tested by a third party testing company to 5000 PSI. The B.O.P. will be operated at least once in each 25 hour period and the blind rams will be operated when the drill pipe is out of the hole on trips. A full opening stabbing valve and an upper kelly cock will be available on the derrick floor at all times and will be compatible with the drill pipe being used to drill this well. Exhibit "E-1" shows a 3" 5000 PSI choke manifold with a manual choke and a hydraulically remote choke. The choke manifold will be rigid connection to the B.O.P. No abnormal pressures or abnormal temperatures are expected in this well during drilling operations, other wells drilled in the area did not encounter high temperatures or pressures. No indication of any H2S present in offset wells.

APPLICATION TO DRILL

CAZA OPERATING, LLC.
 WEST COPPERLINE 29 STATE COM. #2H
 UNIT "D" SECTION 29
 T23S-R34E LEA CO. NM

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-1080" <i>See COA</i> 1175'	8.6-8.9	29-32	NC	Fresh water spud mud. use paper to control seepage, and high vis- cosity to clean hole.
1060'-5085'	10.0- 10.2	29-36	NC	Brine water using paper to control seepage and high viscosity sweeps to clean hole.
5085-15,889'	8.6-9.2	29-38	NC	Fresh water with the possibility of going to cut brine system, using high viscosity sweeps to clean hole.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, cut cores and casing, the viscosity, water loss and other properties may have to be altered to meet these requirements. Pit level will be monitored visually and electronic pit level monitor will be used.

THIS WELL WILL BE DRILLED USING A CLOSED MUD SYSTEM.

APPLICATION TO DRILL

CAZA OPERATING, LLC.
FED WEST COPPERLINE 29 FED/STATE COM. #2H
UNIT "D" SECTION 29
T23S-R34E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Run Dual Laterolog, CNL, LDT, Gamma Ray FMI Sonic, from End of verticle hole (11,900±") back to Intermediate casing (5085')
Run Gamma Ray, Neutron from intermediate casing shoe back to surface.
- B. Rig up mud logger on hole at 5085' and remain on hole to TD.
- C. No DST's or cores are planned at this time unless Geologist requests one to determine quality of reservoir.

13. POTENTIAL HAZARDS:

*See
COA*
No abnormal pressures or temperatures are expected. There is no known presence of H²S in this area. If H²S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP Est. 5350 PSI, and Estimated BHT Est. 195°. There os no indication of H2S being prestnt in offset wells.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 35 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in orde to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The Bone Spring formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialied as a Bone Spring producer.

West Copperline 29 State # 2H
Caza Operating, LLC
Lea County, New Mexico

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LONG's METHOD OF SURVEY COMPUTATION

OBLIQUE CIRCULAR ARC INTERPOLATION

6000	MD OF INTERPOLATION DEPTH,(feet)
#N/A	TVD COORDINATE OF THE DEPTH (feet)
#N/A	N/S COORDINATE OF DEPTH (feet)
#N/A	E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION A AND STATION B

DISTANCE TABLE

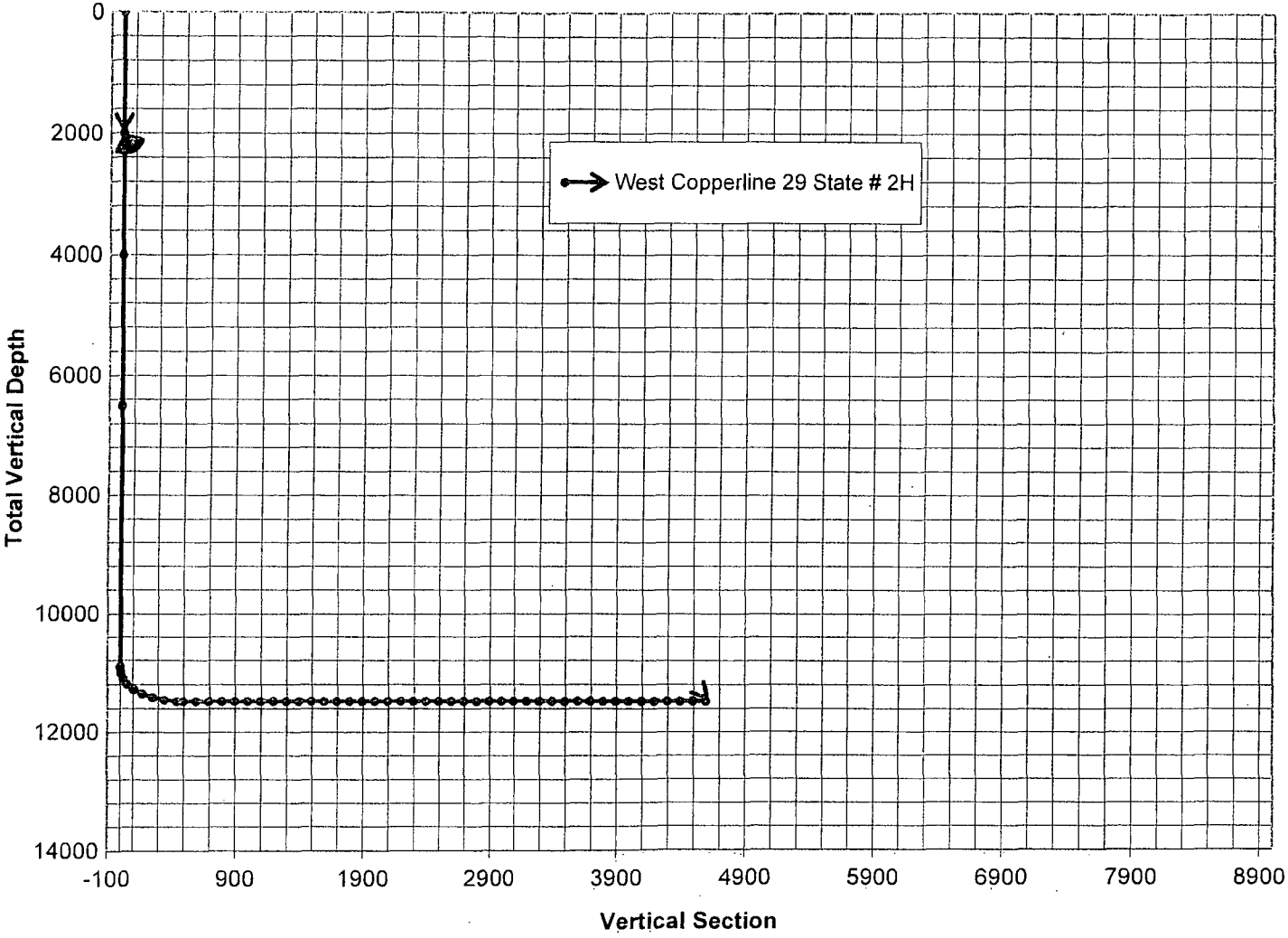
STATION A	STATION B
400.00	600.00
300.00	400.00
100.00	300.00
300.00	ft

TABLE OF SURVEY STATIONS

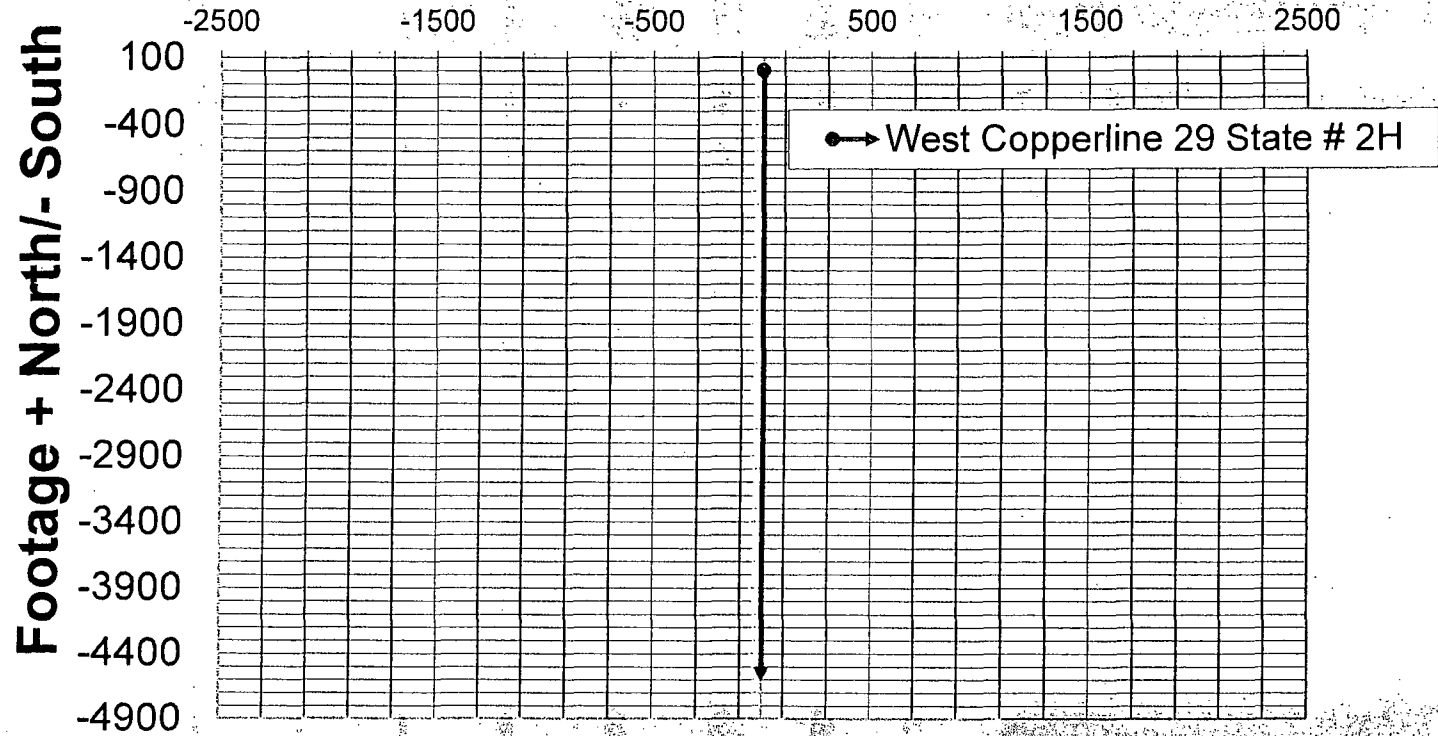
Calculator =

STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+S- ft	E+W- ft	DLS deg/100FT
1	TIE POINT =>	0	0	10997.00	10997.00	0.00	0.00	-
2	100	12	180	11097.00	11096.27	-10.43	0.00	12.00
3	100	24	180	11197.00	11191.20	-41.28	0.00	12.00
4	100	36	180	11297.00	11277.65	-91.19	0.00	12.00
5	100	48	180	11397.00	11351.83	-157.98	0.00	12.00
6	100	60	180	11497.00	11410.50	-238.73	0.00	12.00
7	100	72	180	11597.00	11451.10	-329.92	0.00	12.00
8	100	84	180	11697.00	11471.85	-427.56	0.00	12.00
9	50	90	180	11747.00	11474.46	-477.46	0.00	12.00
10	100	90	180	11847.00	11474.46	-577.46	0.00	0.00
11	100	90	180	11947.00	11474.46	-677.46	0.00	0.00
12	100	90	180	12047.00	11474.46	-777.46	0.00	0.00
13	100	90	180	12147.00	11474.46	-877.46	0.00	0.00
14	100	90	180	12247.00	11474.46	-977.46	0.00	0.00
15	100	90	180	12347.00	11474.46	-1077.46	0.00	0.00
16	100	90	180	12447.00	11474.46	-1177.46	0.00	0.00
17	100	90	180	12547.00	11474.46	-1277.46	0.00	0.00
18	100	90	180	12647.00	11474.46	-1377.46	0.00	0.00
19	100	90	180	12747.00	11474.46	-1477.46	0.00	0.00
20	100	90	180	12847.00	11474.46	-1577.46	0.00	0.00
21	100	90	180	12947.00	11474.46	-1677.46	0.00	0.00
22	100	90	180	13047.00	11474.46	-1777.46	0.00	0.00
23	100	90	180	13147.00	11474.46	-1877.46	0.00	0.00
24	100	90	180	13247.00	11474.46	-1977.46	0.00	0.00
25	100	90	180	13347.00	11474.46	-2077.46	0.00	0.00
26	100	90	180	13447.00	11474.46	-2177.46	0.00	0.00
27	100	90	180	13547.00	11474.46	-2277.46	0.00	0.00
28	100	90	180	13647.00	11474.46	-2377.46	0.00	0.00
29	100	90	180	13747.00	11474.46	-2477.46	0.00	0.00
30	100	90	180	13847.00	11474.46	-2577.46	0.00	0.00
31	100	90	180	13947.00	11474.46	-2677.46	0.00	0.00
32	100	90	180	14047.00	11474.46	-2777.46	0.00	0.00
33	100	90	180	14147.00	11474.46	-2877.46	0.00	0.00
34	100	90	180	14247.00	11474.46	-2977.46	0.00	0.00
35	100	90	180	14347.00	11474.46	-3077.46	0.00	0.00
36	100	90	180	14447.00	11474.46	-3177.46	0.00	0.00
37	100	90	180	14547.00	11474.46	-3277.46	0.00	0.00
38	100	90	180	14647.00	11474.46	-3377.46	0.00	0.00
39	100	90	180	14747.00	11474.46	-3477.46	0.00	0.00
40	100	90	180	14847.00	11474.46	-3577.46	0.00	0.00
41	100	90	180	14947.00	11474.46	-3677.46	0.00	0.00
42	100	90	180	15047.00	11474.46	-3777.46	0.00	0.00
43	100	90	180	15147.00	11474.46	-3877.46	0.00	0.00
44	100	90	180	15247.00	11474.46	-3977.46	0.00	0.00
45	100	90	180	15347.00	11474.46	-4077.46	0.00	0.00
46	100	90	180	15447.00	11474.46	-4177.46	0.00	0.00
47	100	90	180	15547.00	11474.46	-4277.46	0.00	0.00
48	100	90	180	15647.00	11474.46	-4377.46	0.00	0.00
49	100	90	180	15747.00	11474.46	-4477.46	0.00	0.00
50	100	90	180	15847.00	11474.46	-4577.46	0.00	0.00
51	42	90	180	15889.00	11474.46	-4619.46	0.00	0.00
52								

Copperline Prospect

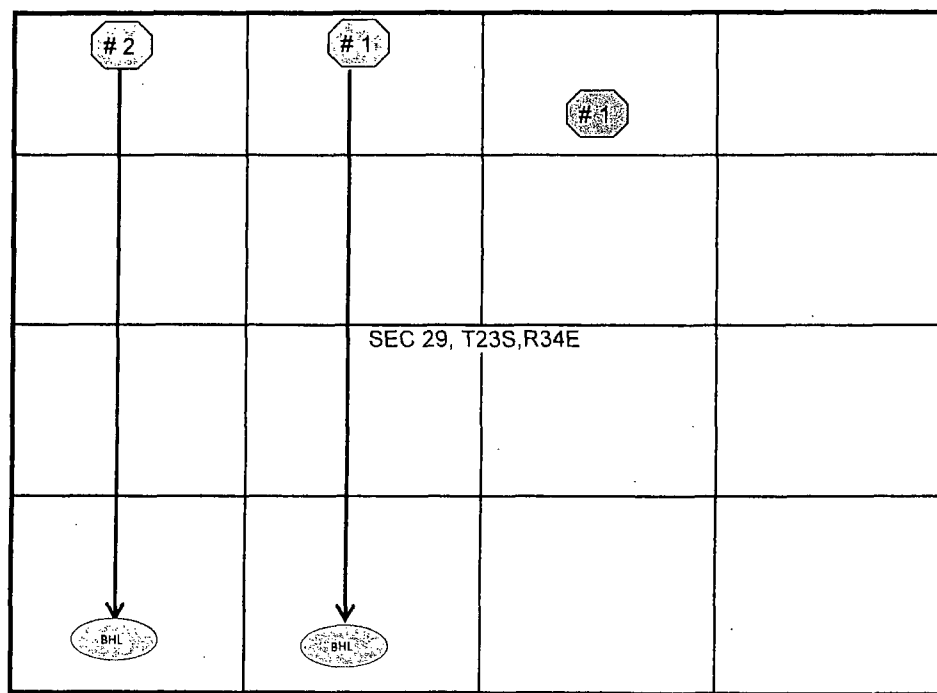


Horizontal Plane Footage +East/-West



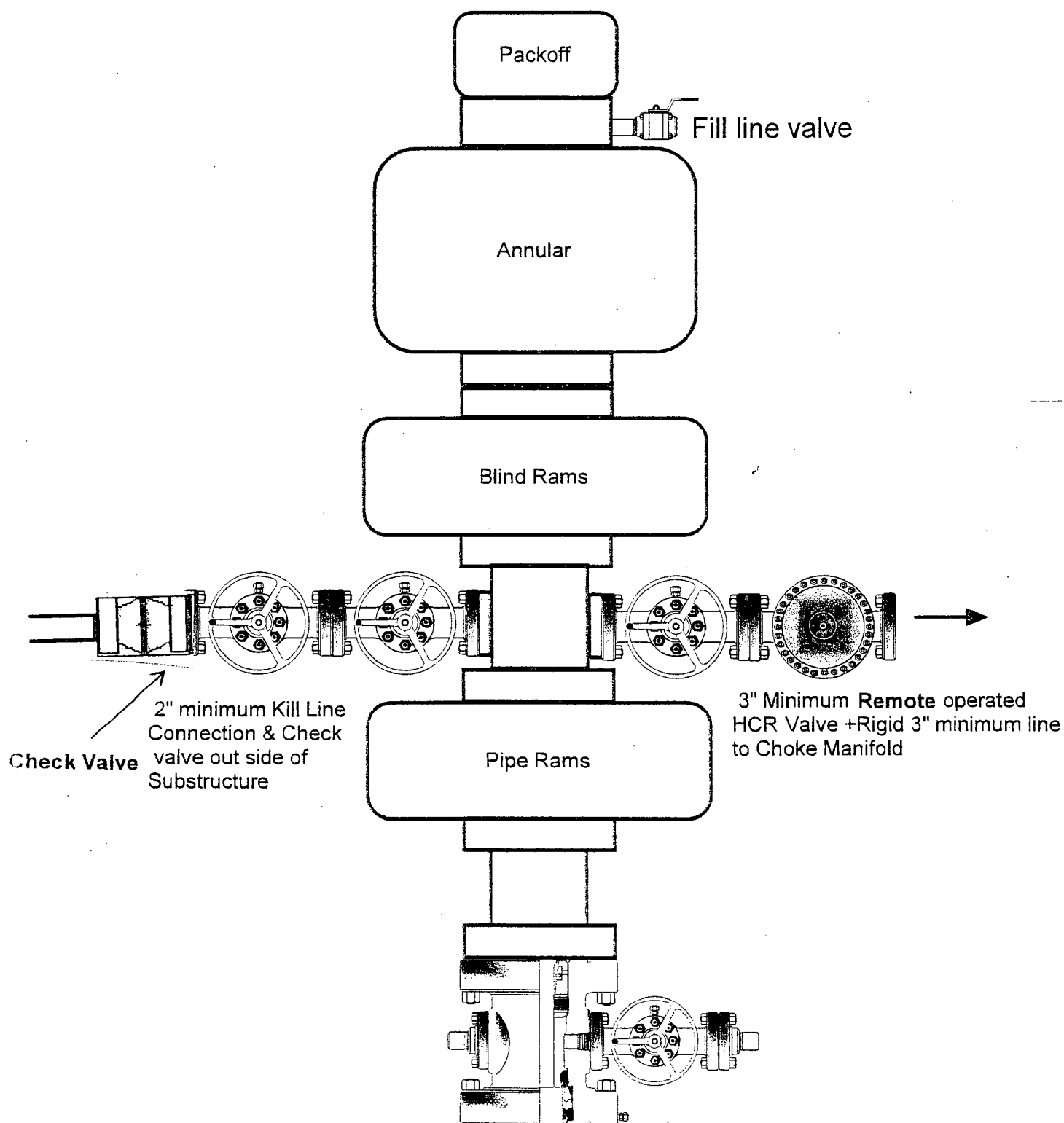
West Copperline 29 State #2H 3rd Bones Springs Horizontal

Sec 29, (NW/NW)T-23-S, R-34-E, Lea County, New Mexico



Well Name	Surface Location	Depth and Strata	Target TD	Bottom Hole Location
W.Copperline 29 St # 2H	330 FNL & 660 FWL	TD = 11,480 3rd Bone Sprgs Hrzs	15880 MD	330 FSL & 1980 FWL ± 11,480 T'
W.Copperline 29 St # 1H	330 FNL & 1980 FWL	TD = 11,480 3rd Bone Sprgs Hrzs	15880 MD	330 FSL & 1980 FWL ± 11,480 T'
Antelbellum Unit #2	990 FNL & 1980 FEL	TD = 10860-9532' B Sprgs Vert	14,318 Penn	Same

West Copperline 29 Fed/State Com # 2H
5000 PSI BOP Schematic
Minimum requirement 11 inch



5,000 psi Manifold Equipment Configuration of chokes may vary

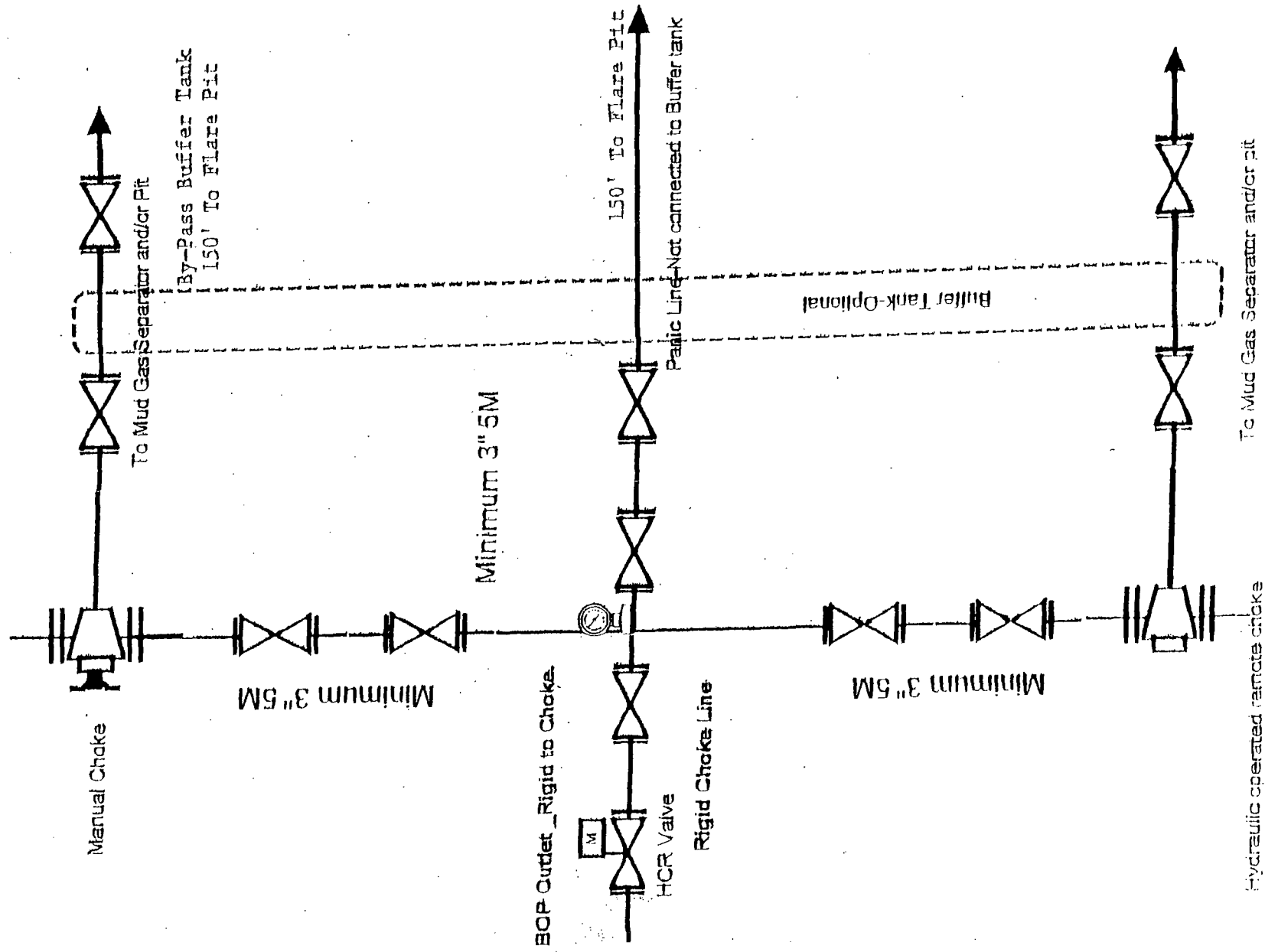
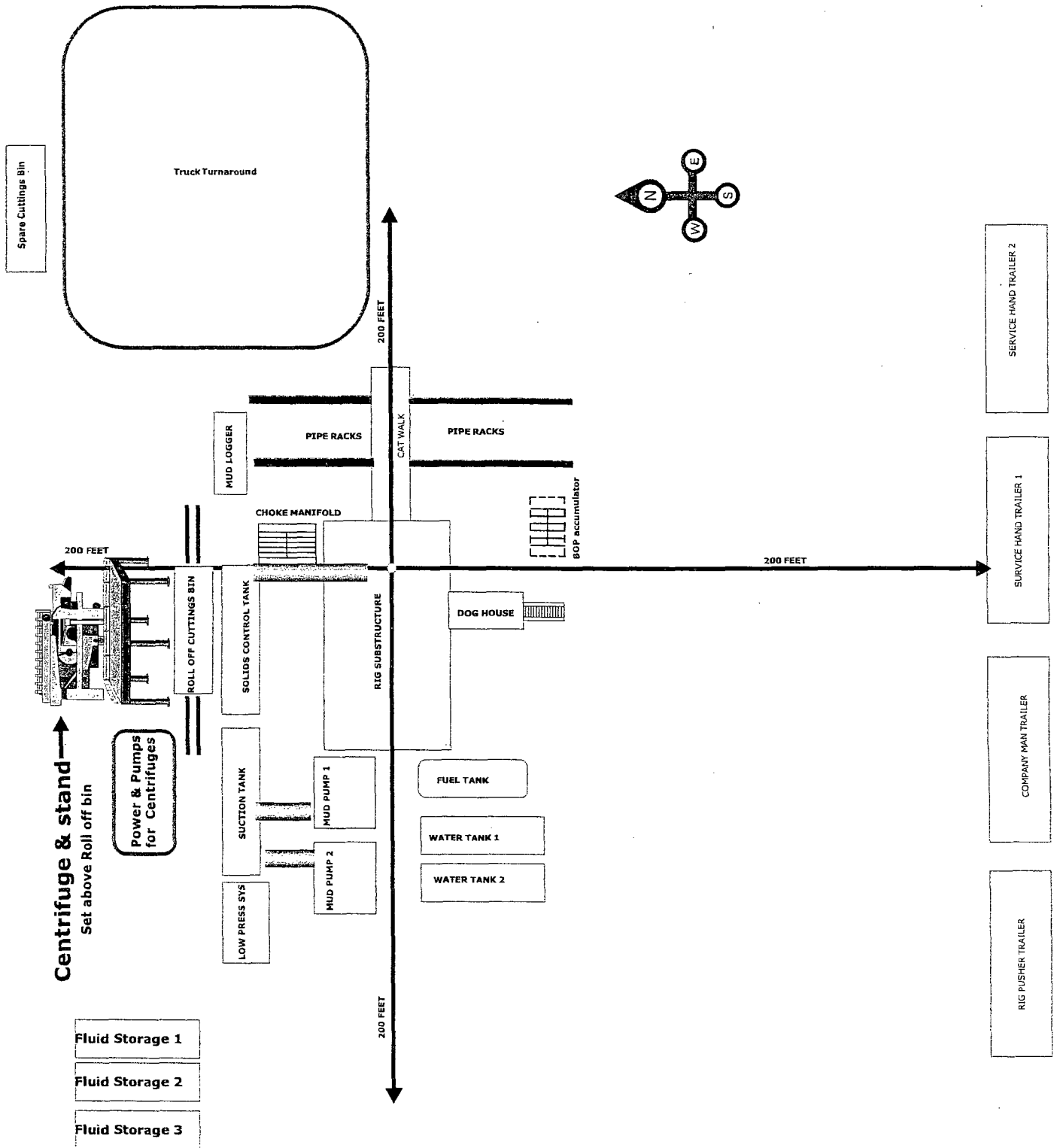


EXHIBIT "E-1"

Closed Loop Oil Well W. Copperline 29 State Com# 2H



Note: The Rig and Closed System Company for this well have not been selected thus the set up shown is simply generic.



West Copperline 29 State Com # 2H

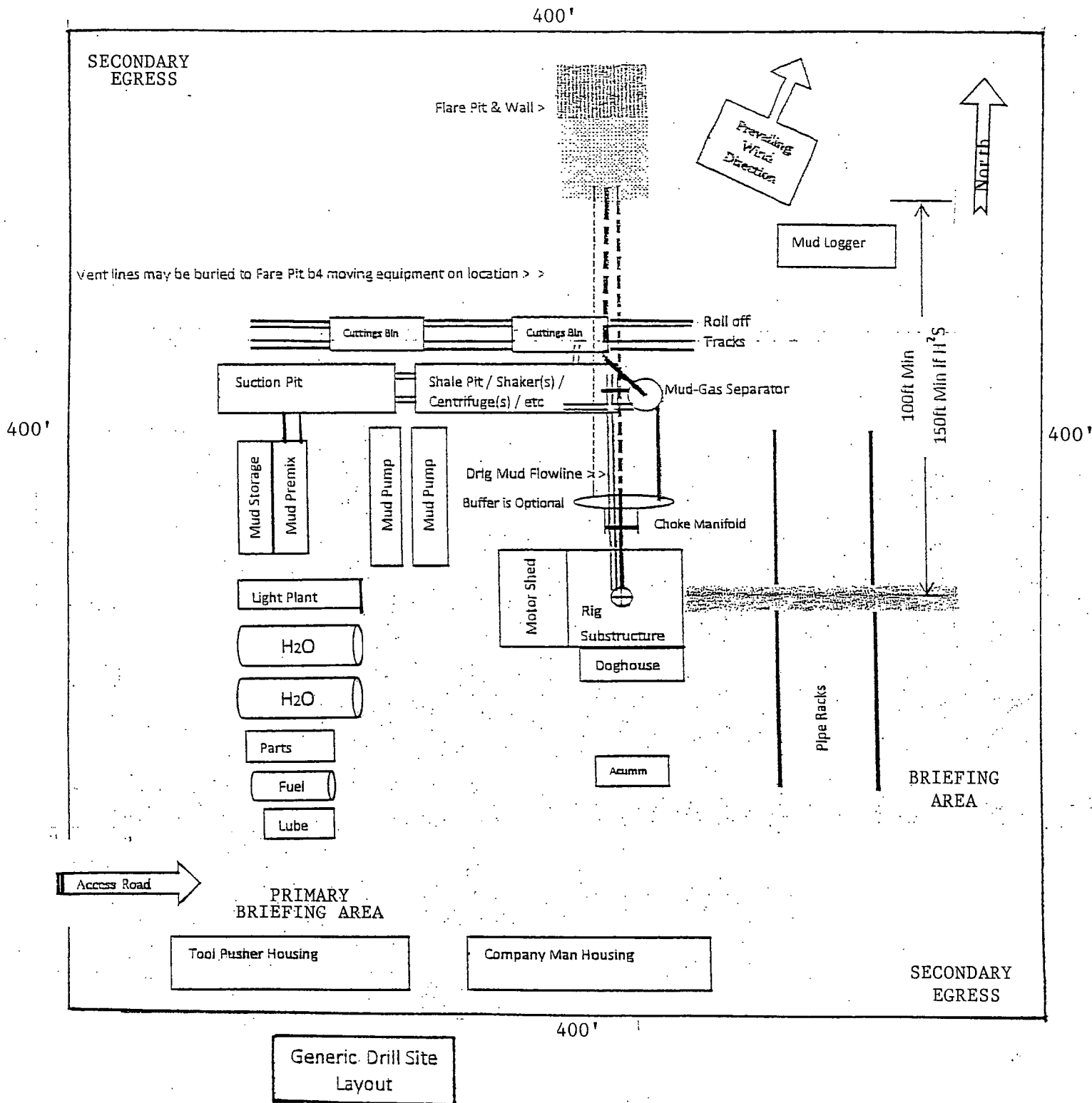
Closed Loop Drilling System

Operations and Maintenance Plan

Closed Loop equipment will be inspected and monitored closely on a daily basis by each drilling rig Tour and by those hired specifically to operate the equipment. Any leak or release detected will be repaired immediately and the proper NMOCD official will be notified within the 48 hr requirement. A large release will require Caza Operating, LLC representatives to contact BLM immediately at the Carlsbad office "575 234 5972" Hobbs "575 393 3612" as well as the NMOCD @ 575 393 6161 as stated by NMOCD rule 116.

Closure Plan

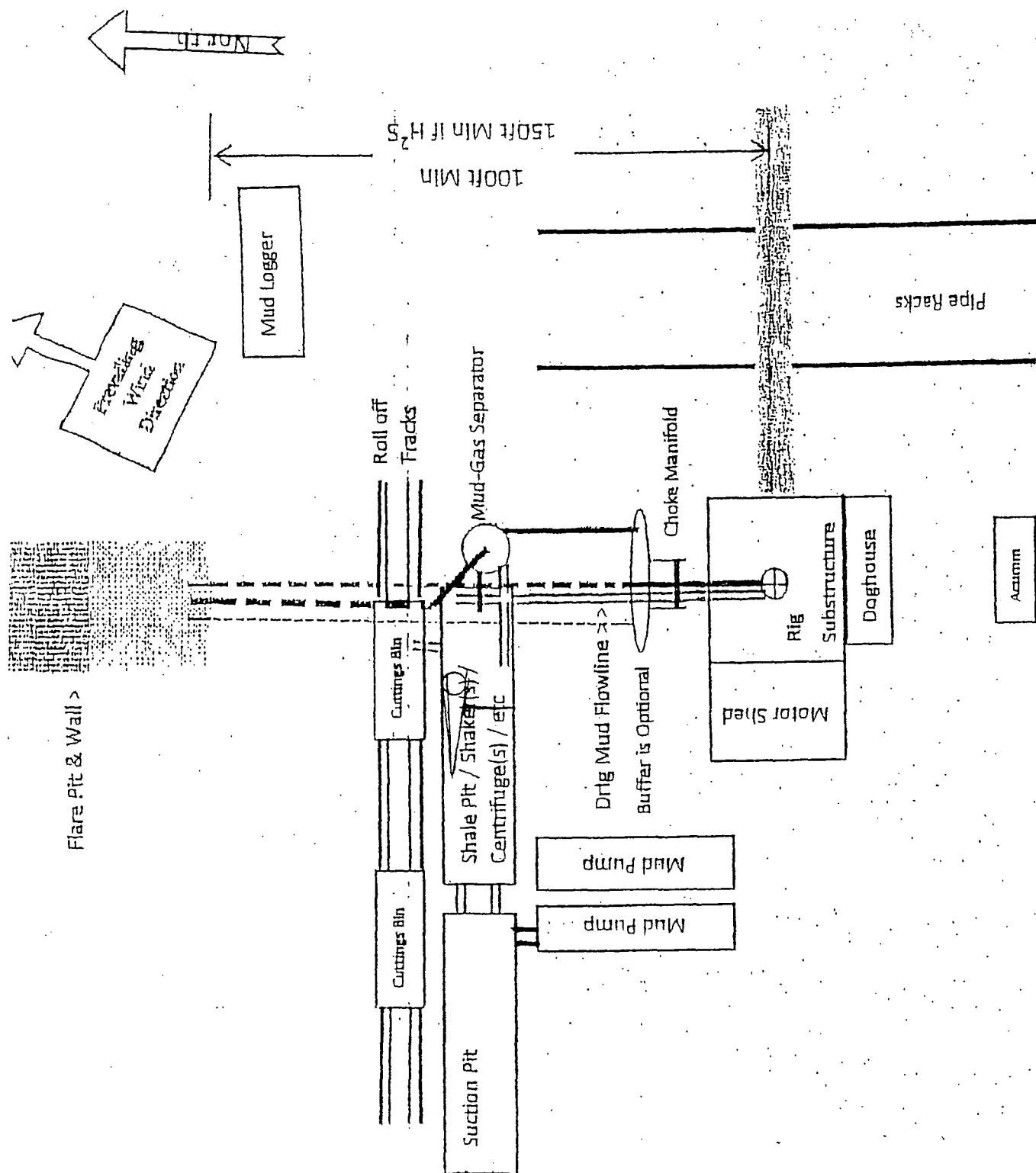
During and after drilling operations, liquids (which apply), all drill cuttings and drilling fluids will be hauled and disposed of at the R-360 disposal (permit number NM 01-0006) located about 30 miles East of Carlsbad, New Mexico. An alternate approved disposal site has been selected Parabo disposal "Sundance " which is 4 miles East of Eunice (permit number NM 01-0003). The Second site would be used in the event of economics or physical problems with R-360 disposal.



Preplanning reasonable spacing accommodations for a useable "Closed Loop" drillsite layout is challenging. Particular site specific conflicts need to be resolved. This generic APD plat was prepared to demonstrate several necessary elements. The plat should include: a north arrow, prevailing wind direction, spacing access for truck removal of cutting bins, flare pit location, and piping provision to vent all combustible gas to the flare pit. Include the choke manifold and mud-gas separator location and their connection routing.

EXHIBIT "D" RIG LAYOUT PLAT

CAZA OPERATING, LLC.
WEST COPPERLINE 29 STATE COM. #2H
UNIT "D" SECTION 29
T23S-R34E LEA CO. NM



EXPANDED VIEW OF
RIG LAYOUT PLAT
FLOWLINES TO MUD-GAS
SEPERATOR & BLOW DOWN
LINES TO FLARE PIT

Caza Operating, LLC
West Copperline Fed/State Com #2H
Hydrogen Sulfide Contingency Plan
For Drilling/Workover/Facility

330' FNL & 660' FWL, SECTION 29 T23S-R34E LEA CO. NEW MEXICO

This well and its anticipated facility are not expected to have Hydrogen Sulfide releases. However, there may be Hydrogen Sulfide production in the nearby area. There are no occupied dwellings in the area but a contingency plan has been orchestrated. Caza Operating, LLC will have a Company Representative living on location through out the drilling and completion of this well. If Hydrogen Sulfide is detected or suspected, monitoring equipment will be available for monitoring and/or testing. An un-man H₂S safety trailer and monitoring equipment will also be station on location during the drilling operation below the Surface Casing depth of ± 1060 ft. to total drilling depth of 15,889' MD & TVD of $\pm 11,475'$

**Caza Operating, LLC
West Copperline 29 State Com # 2H
Hydrogen Sulfide Contingency Plan
For Drilling/Workover/Facility**

330 FNL & 660 FWL, SEC 29, T23S, R34E, LEA COUNTY, NEW MEXICO

EMERGENCY CALL LIST: (Start and continue until ONE of these people have been contacted)

	<u>OFFICE</u>	<u>MOBILE</u>	<u>HOME</u>
Caza Operating,LLC.	432 682-7424		
Richard Wright	432 682-7424 e 1006	432 556 7595	432 699 7108
Tony Sam	432 682-7424 e 1007	432 556 6708	432 689 0709

EMERGENCY RESPONSE NUMBERS:

State Police:	Eddy County		575 748 9718
State Police:	Lea County		575 392 5588
Sheriff	Eddy County		575 746 2701
Sheriff	Lea County		
Emergency Medical Ser	Eddy County		911 or 575 746 2701
(Ambulance)	Lea County	Eunice	911 or 575 394 3258
Emergency Response	Eddy County SERC		575 476 9620
	Lea County		
Artesia Police Dept			575 746 5001
Artesia Fire Dept			575 746 5001
Carlsbad Police Dept			575 885 2111
Carlsbad Fire Dept			575 885 3125
Loco Hills Police Dept			575 677 2349
Jal Police Dept			575 395 2501
Jal Fire Dept			575 395 2221

**Caza Operating, LLC
West Copperline 29 State Com # 2H
Hydrogen Sulfide Contingency Plan
For Drilling/Workover/Facility**

330 FNL & 660 FFWL, SEC 29, T23S, R34E, LEA COUNTY, NEW MEXICO

Jal ambulance		575 395 2221
Eunice Police Dept		575 394 0112
Eunice Fire Dept		575 394 3258
Eunice Ambulance		575 394 3258
Hobbs Police Dept		
NMOCD	District 1 (Lea, Roosevelt, Curry)	575 393 6161
	District 2 (Eddy Chavez)	575 748 1283
BLM Carlsbad		575 234 5972
BLM Hobbs		575 393 3612
Lea County Information		575 393 8203
Midland Safety	Lea/Eddy County	432 520 3838
		888 262 4964
American Safety	Lea/Eddy County	575 746 1096
		575 393 3093
Baker Pressure pmp'g	Artesia	575 746 3140
	Hobbs	800 530 4485
		575 392 5556
	Midland	800 694 6601
		432 685 8900
Halliburton	Artesia	800 844 8451
	Hobbs	800 844 8451
	Midland	800 844 8451
Schlumberger pmp'd Ser	Hobbs	800 548 9196
		575 393 6186
	Artersia	575 748 1391
	Midland	432 683 1887
Wild Well Control	Midland	281 784 4700
		281 443 4873
Boots & Coots		800 256 9688
		281 931 8884

**Caza Operating, LLC
West Copperline 29 State Com # 2H
Hydrogen Sulfide Contingency Plan
For Drilling/Workover/Facility**

330 FNL & 660' FWL, SEC 29, T23S, R34E, LEA COUNTY, NEW MEXICO

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