

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
June 16, 2008

JAN 17 2012

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address CAZA OPERATING, LLC. 200 NORTH LORAIN SUITE 1550 MIDLAND, TEXAS 79701		OGRID Number 249099
Property Code 39020		API Number 30 - 025-26692
Property Name CAZA RIDGE "14" STATE		Well No. 1H
Proposed Pool 1 Antelope WILDCAT Ridge Bone Spring		Proposed Pool 2 22055

Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the 1980'	North/South line	Feet from the 1980'	East/West line	County
J	14	23S	34E		1980'	SOUTH	1980'	EAST	LEA

Proposed Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the 1980'	North/South line	Feet from the 1980'	East/West line	County
B	14	23S	34E		330'	NORTH	1980'	EAST	LEA

Additional Well Information				
Work Type Code E	Well Type Code O	Cable/Rotary ROTARY	Lease Type Code S	Ground Level Elevation 3366'
Multiple NO	Proposed Depth TVD-11,227	Formation MD-14,033	Contractor	Spud Date WHEN APPROVED

(Casing set originally) Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	94	677'	450 Sx.	Surface
17 1/2"	13 3/8"	68 & 72#	4900'	5400 Sx.	Surface
12 1/2"	9 5/8"	47 & 53.5#	11,713'	3300 Sx.	
8 1/2"	7 5/8" Liner	39#	11,298-13,542'	350 Sx	

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED SHEETS FOR DETAIL

Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Re-Entry

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: Joe T. Janica		Approved by: [Signature]	
Printed name: Joe T. Janica		Title: Permit Eng.	
Title: Permit Eng.		Approval Date: JAN 19 2012	
E-mail Address: joejanica@valornet.com		Expiration Date:	
Date: 01/16/12	Phone: 575-391-8503	Conditions of Approval Attached ☐	

JAN 23 2012

District I
1625 N French Dr, Hobbs, NM 88240
Phone (575) 393-6161 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 Road, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-26692	² Pool Code 2205	³ Pool Name Antelope Ridge; WILDCAT BONE SPRING ; North
⁴ Property Code 39020	⁵ Property Name CAZA RIDGE; "14" STATE	
⁷ OGRID No. 249099	⁸ Operator Name	⁶ Well Number 1H ⁹ Elevation 3366' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	14	23S	34E		1980'	SOUTH	1980'	EAST	LEA

¹¹ 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
B	14	23S	34E		330'	NORTH	1980'	EAST	LEA

¹² Dedicated Acres 120	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

	¹⁷ 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 hereinafter entered by the division. Signature: <i>Joe T. Janica</i> Date: 01/16/12 Printed Name: Joe T. Janica E-mail Address: joejanica@valornet.com
	¹⁸ 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 of Survey Signature and Seal of Professional Surveyor:
	Certificate Number

CAZA OPERATING, LLC.
CAZA RIDGE "14" STARW #1H
"Formerly" BTA - Ridge 8006 JV-P # 1H-ReEntry
Original API 30 025 26692
1980 FSL & 1980 FEL, Sec 14, T-23-S, R-34-E
Lea County, New Mexico
Field = Antelope Ridge, Bone Springs #(2200)
Bone Spring Test

ReEntry Job summary:

Locate Dry Hole Marker. Improve location. Closed Loop system planned. Install Head 13 5/8" 5M Head. Clean out 9.625" casing to Wolfcamp interval. Set wireline CIBP @ 11,450 ft. Run CBL in 9.625" casing to locate Cement Top. Squeeze if necessary. Run Neutron/GR Correlation log. Run Gyro. Run 7" Casing from Surface to PBTD $\pm$ 11,450 ft. Cement Casing. Do Directional plan. Assume North KOP. Set Whipstock on positioned above CIBP. Cut window & drill curve w/ 6.125" bit. Drill Lateral with 6.125" bit to limits of section. Run 4 1/2" production liner & cement to top of liner @ $\pm$ 10,500ft. Do Sleeve/Acid soluble cement job on lateral. 10-15 stage Frac. Put well on Rod Pump. Build Facility.

WELL HEAD:

TUBING SPOOL 13.375 INCH SOW Hd X 13.625 5M Flange.

CASING DETAIL SUMMARY: See Attached Schematic.

ReEntry Procedure

Locate Low Pressure Gas Processing Gathering Line

1. Locate Dry hole marker. Prepare location for Small Drilling Rig. Set cellar. Install well head on 13.375" (13.375 SOW X 13.625" 5M) casing.
2. MIRU Drilling tools. Install 13.625" 5K BOPE. Test Well head & BOPE to 2500 psi.
3. No pits allowed in NM. Use circulating steel tanks for storage of cuttings & fluids.
4. P/U 12.25" Bit & BHA. Clean out 13.375" Csg to 9.625" casing stub @ 1380 ft. Circulate clean & POH.
5. Test 9.625" casing stub/13.375" casing for integrity. Assuming okay.
6. P/U 8.5" bit & BHA. TIH to 9.625" stub. Work into stub & Clean out cement plugs to 7 5/8" liner top @ 11,289 ft. POH.

CAZA OPERATING, LLC.
CAZA RIDGE "14" STATE #1H
"Formerly" BTA - Ridge 8006 JV-P # 1H-ReEntry
Original API 30 025 26692
1980 FSL & 1980 FEL, Sec 14, T-23-S, R-34-E
Lea County, New Mexico
Field = Antelope Ridge, Bone Springs #(2200)
Bone Spring Test

7. RIH w/ Cement Retainer & set @ $\pm 11,250$ ft. POH L/D 4 ½" DP.
8. RIH P/U 7" 26# P-110 Casing to Retainer @ 11,250 ft
9. Cement Casing in place with cement top estimated @ ± 6500 ft.
10. N/D BOPE. Install "B" Section (13.625" 5M x 7.0625" 10M) Spool: Test Spool.
11. RIH to cement w/ 3 ½" rental DP & BHA to cement. Clean out to PBTD "Float collar" of $\pm 11,200$ ft.
12. R/U and run wireline gyro from PBTD to surface.
13. POH w/ 3 ½" DP & BHA. Run Correlation Neutron/Gamma/CCL log. Set wireline CIBP @ KOP ± 10850 ft.
14. RIH w/ Drill String & Confirm good set of CIBP. POH w/ Drill String.
15. RIH w/ Knight Window Whipstock and orient to a Northerly Direction. Cut Window in 7" & 9.625" casing. POH w/ mill. May take several mills to get good clean window.
16. RIH w/ 6.125" bit & BHA "Directional" . Drill Curve from $\pm$ KOP 10,845 in Northerly Direction to TVD of 11,227 ft. BHL should be 330 FNL & 1980 FEL same section. MD should be $\pm 14,033$ ft.
17. POH L/D Drill string. Return Rental pipe.
18. RIH w/ 4 ½" 11.6 # P-110 Production Liner. With sleeve hardware & packer type hanger. Run BTC couplings through curve & lateral.
19. Cement 4 ½" liner with acid soluble cement to 200 ft above hanger. Circulate out cement above hanger.
20. POH w/ hanger setting tool.
21. RIH w/ clean out tool and clean out Top of Liner.
22. Test Liner top.

CAZA OPERATING, LLC.
CAZA RIDGE "14" STATE #1H

"Formerly" BTA - Ridge 8006 JV-P # 1H-ReEntry

Original API 30 025 26692

1980 FSL & 1980 FEL, Sec 14, T-23-S, R-34-E

Lea County, New Mexico

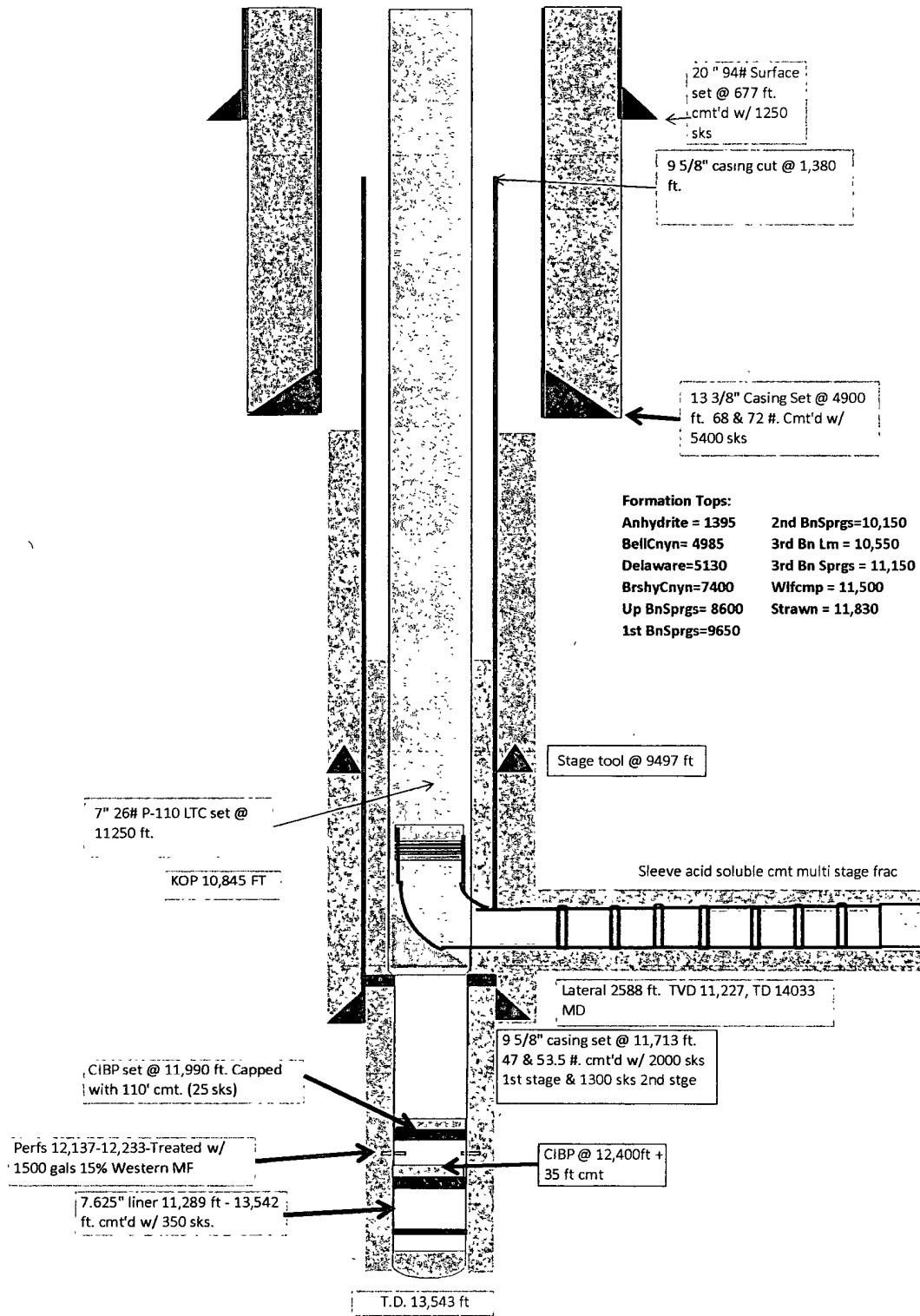
Field = Antelope Ridge, Bone Springs #(2200)

Bone Spring Test

23. POH/L/D rental DP.
24. Install Dry H flange.
25. R/D M/O Drilling Tools
26. Set Anchors. MIRU Well Service unit.
27. RIH w/ 4 3/4" bit & scrapper on 2 7/8" L-80 tubing to PBTD $\pm$ 10,500 ft. Circulate hole clean. Displace w/ 2% KCL FW. POH w/ tubing.
28. N/D BOPE & N/U Frac Tree.
29. R/U Frac Equipment. Perform Stage frac as per design.
30. Flowback frac load until well is dead or set Wireline RBP to N/D Frac stack.
31. N/U BOPE. RIH w/ RBP retrieving tool. Retrieve RBP.
32. Clean out excess sand in lateral. Coil may be need for this operation.
33. RIH w/ Production tubing.
34. RIH w/ rods & Pump.
35. Set 640 pumping unit with Gas engine.
36. Pump back frac load to test.
37. Build Battery based on Test. Locate Low Pressure gas sales line.

Caza Ridge 14 # 1H ReEntry
 1980 FSL & 1980 FEL, Sec 14, T23S, R34E
 Lea County, New Mexico

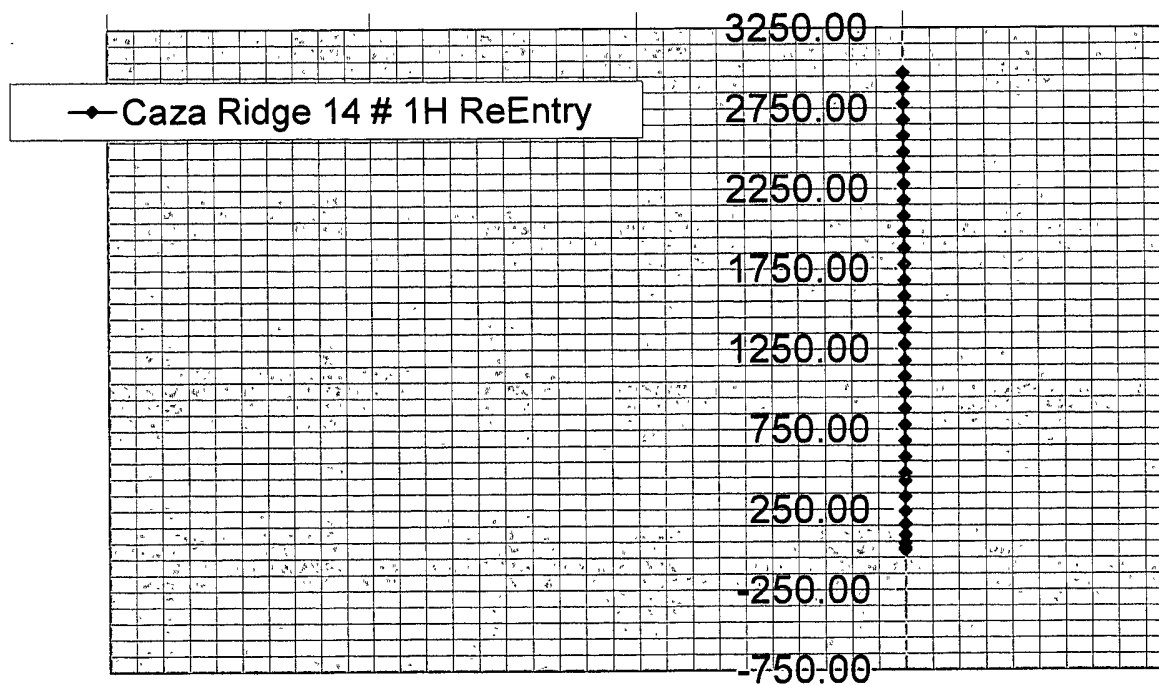
GL Elevation 3366. RKB 3398



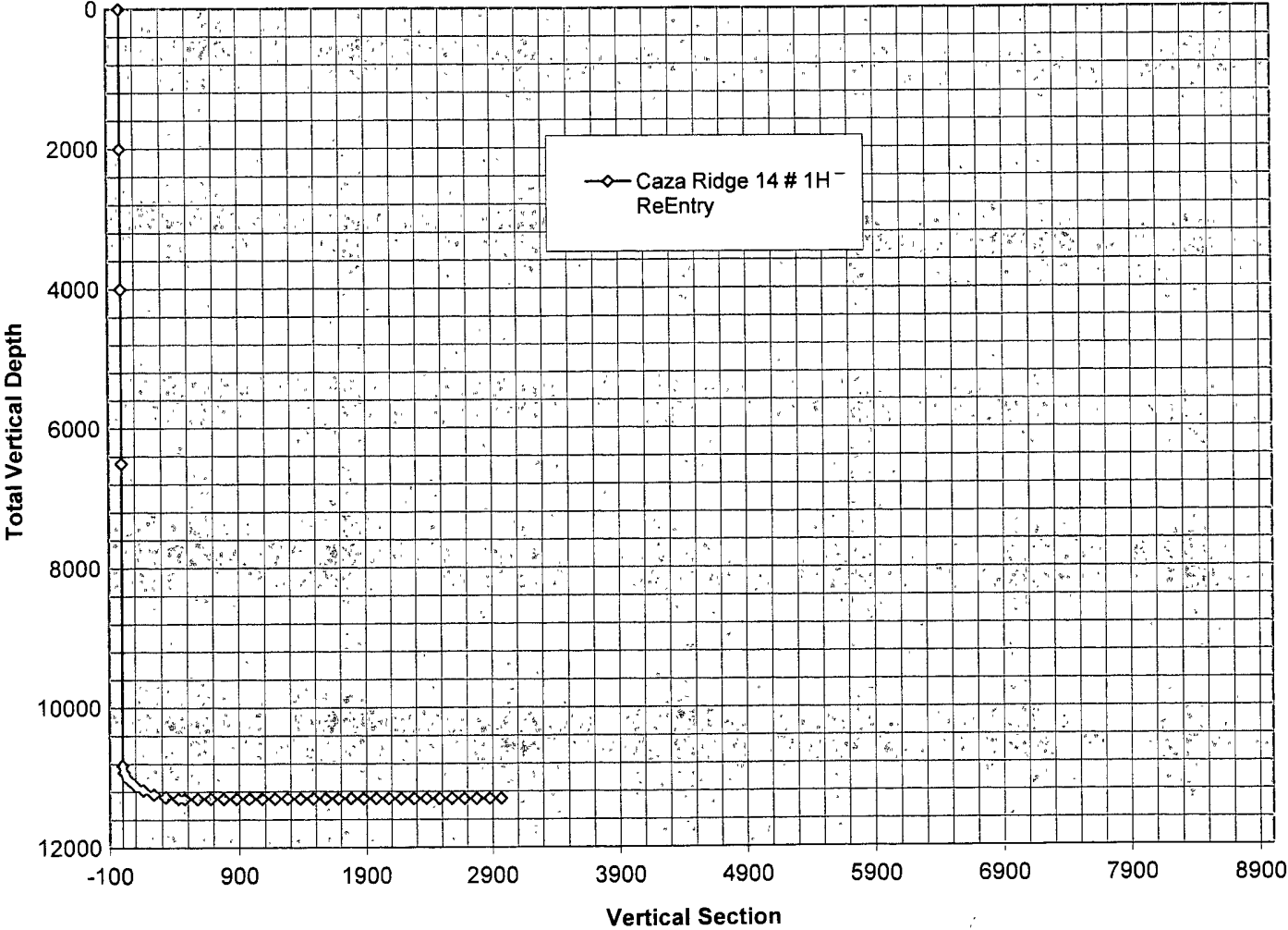
Horizontal Plane Footage +East/-West

Footage + North/- South

-1500.00 -1000.00 -500.00 0.00 500.00



Caza Ridge 14 # 1H ReEntry



Caza Ridge 14 #1H-ReEntry

COPYRIGHT 1990 MITCHELL ENGINEERING, PO BOX 1492 GOLDEN, CO, 80402, USA (303) 273 3744

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

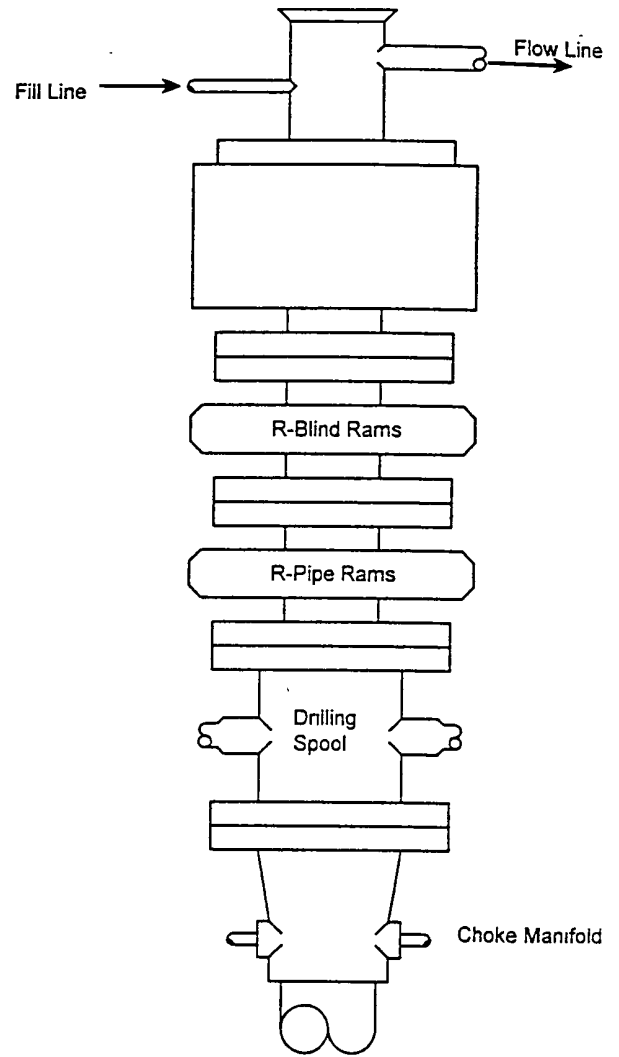
TABLE OF SURVEY STATIONS

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	10823.00	10823.00	0.00	0.00	-
2	100	12	0	10923.00	10922.27	10.43	0.00	12.00
3	100	24	0	11023.00	11017.20	41.28	0.00	12.00
4	100	36	0	11123.00	11103.65	91.19	0.00	12.00
5	100	48	0	11223.00	11177.83	157.98	0.00	12.00
6	100	60	0	11323.00	11236.50	238.73	0.00	12.00
7	100	72	0	11423.00	11277.10	329.92	0.00	12.00
8	100	84	0	11523.00	11297.85	427.56	0.00	12.00
9	50	90	0	11573.00	11300.46	477.46	0.00	12.00
10	100	90	0	11673.00	11300.46	577.46	0.00	0.00
11	100	90	0	11773.00	11300.46	677.46	0.00	0.00
12	100	90	0	11873.00	11300.46	777.46	0.00	0.00
13	100	90	0	11973.00	11300.46	877.46	0.00	0.00
14	100	90	0	12073.00	11300.46	977.46	0.00	0.00
15	100	90	0	12173.00	11300.46	1077.46	0.00	0.00
16	100	90	0	12273.00	11300.46	1177.46	0.00	0.00
17	100	90	0	12373.00	11300.46	1277.46	0.00	0.00
18	100	90	0	12473.00	11300.46	1377.46	0.00	0.00
19	100	90	0	12573.00	11300.46	1477.46	0.00	0.00
20	100	90	0	12673.00	11300.46	1577.46	0.00	0.00
21	100	90	0	12773.00	11300.46	1677.46	0.00	0.00
22	100	90	0	12873.00	11300.46	1777.46	0.00	0.00
23	100	90	0	12973.00	11300.46	1877.46	0.00	0.00
24	100	90	0	13073.00	11300.46	1977.46	0.00	0.00
25	100	90	0	13173.00	11300.46	2077.46	0.00	0.00
26	100	90	0	13273.00	11300.46	2177.46	0.00	0.00
27	100	90	0	13373.00	11300.46	2277.46	0.00	0.00
28	100	90	0	13473.00	11300.46	2377.46	0.00	0.00
29	100	90	0	13573.00	11300.46	2477.46	0.00	0.00
30	100	90	0	13673.00	11300.46	2577.46	0.00	0.00
31	100	90	0	13773.00	11300.46	2677.46	0.00	0.00
32	100	90	0	13873.00	11300.46	2777.46	0.00	0.00
33	100	90	0	13973.00	11300.46	2877.46	0.00	0.00
34	92	90	0	14065.00	11300.46	2969.46	0.00	0.00
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								

BLOWOUT PREVENTER SYSTEM

5000 PSI



Type 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System

