

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

1301 W. Grand Avenue
Artesia, NM 88210

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

1b. TYPE OF WELL

OIL ☐
WELL

GAS ☒
WELL

SINGLE ☐
OTHER ZONE

MULTIPLE ☐
ZONE

2. NAME OF OPERATOR

Gruy Petroleum Management Co.

3. ADDRESS AND TELEPHONE NO.

P.O. Box 140907 Irving TX 75014 972-401-3111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

SHL 2520' FNL & 1415' FEL BHL 1500' FSL & 1200' FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

17 miles South of Carlsbad

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, T.O.

(Also to nearest drlg. unit line, if any)

1415'

16. NO. OF ACRES IN LEASE

1833.3

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

SHL 25' BHL 2597'

19. PROPOSED DEPTH

13000'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3758 GR

CARLSBAD CONTROLLED WATER BASIN

22. APPROX. DATE WORK WILL START*

12-15-03

23

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2" WITNESS	H-40 13 3/8"	48 #	425' 400' 535' 9/25/03	490 sx circulate
12 1/4"	J-55 9 5/8"	36 #	3200' 1900'	1200 sx circulate
7 7/8"	N-80/S-95 5 1/2"	17 #	13000'	1620 sx TOC 2700'

The proposed well will be drilled to a depth of 13000' and completed as a White City Penn; producer.

From the base of the surface pipe through the running of production casing, the well will be equipped with a 5000 - psi BOP system. We are requesting a variance for the 13 3/8" surface casing from Onshore Order No. 2, which states all casing strings below the conductor, shall be pressure tested to .22 psi per foot or 1500 # whichever is greater, but not to exceed 70% of the manufactures stated maximum internal yield. Per onshore order 2 the 13 3/8" 48 # H-40 casing should be tested at 70% of its maximum internal yield of 1730 # or 1211 #. During the running of the surface pipe we do not anticipate any pressures greater than 500 #, and are requesting a variance to test the 13 3/8" casing to 500 #

IN ABOVE SPACE, DESCRIBE PROPOSED PROGRAM:

If proposal is to deepen, give data on present productive zone and proposed new productive zone.

If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24

SIGNED

Zeno Farris

TITLE

Mgr. Ops. Admin

DATE

09-12-03

(This space for Federal or State office use)

PERMIT No.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to these rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

/s/ Joe G. Lara

ACTING

TITLE

FIELD MANAGER

DATE

23 DEC 2003

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

*Steel
Pits*

APPROVAL FOR 1 YEAR

Additional Operator Remarks

Gruy Petroleum Management Co.
C K 7 Federal 2
Unit Letter G Section 7
T24S - R26E Eddy County, NM

1 Master Drilling and Surface Use Plan on file at the BLM Roswell office which includes:

- A. Lease Responsibility Statement and bonding information.
- B. Anticipated starting date and duration of operations.

2 Included in this attachment are:

- A. Well Location and acreage dedication plat.
- B. Supplemental Surface Use Plan. (Exhibits A, B, and C)
- C. Supplemental Drilling Data. (Exhibits D and E)

Surface Use Plan

Gruy Petroleum Management Co.
C K 7 Federal 2
Unit Letter G Section 7
T24S - R26E Eddy County, NM

- 1 Existing Roads: Area maps, Exhibit "B" is a reproduction of Lea Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the proposed well site as staked.
 - B. Go South of Carlsbad on Highway 62-180 for approximately 14 miles to mile marker 22. Turn right onto access rd for about 1 1/4 miles then left to location.
- 2 PLANNED ACCESS ROADS: No planned access road. Existing road within well pad.
- 4 LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A"
 - A. Water wells - None known
 - B. Disposal wells - None known
 - C. Drilling wells - None known
 - D. Producing wells - As shown on Exhibit "A"
 - E. Abandoned wells - As shown on Exhibit "A"

Surface Use Plan

Gruy Petroleum Management Co.
C K 7 Federal 2
Unit Letter G Section 7
T24S - R26E Eddy County, NM

4 OTHER INFORMATION:

- A. Topography consists of a sloping plane with loose tan sands, and a few eroded areas. Vegetation is mainly yucca, mesquite and shin oak.
- B. The wellsite is on surface owned by The United States Department of the Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. An Archaeological survey will be conducted on the location and proposed roads, and this report will be filed with the Bureau of Land Management in the Carlsbad BLM office.
- D. There are no known dwellings within 1 1/2 miles of this location.

5 OPERATORS REPRESENTATIVE:

Gruy Petroleum Management Company
P.O. Box 14097
Irving, TX 75014
Office Phone: (972) 443-6489
Zeno Farris

- 6 CERTIFICATION: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Gruy Petroleum Management Company contractors/subcontractors in the conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

NAME: Zeno Farris

DATE: 9/12/03

TITLE: Manager, Operations Administration

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Artec. NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
			White City; Penn (undesignated)
Property Code	Property Name		Well Number
	CK 7 Federal		2
OGRID No. 162683	Operator Name		Elevation
	GRUY PETROLEUM MANAGEMENT CO.		3758'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	7	24-S	26-E		2520'	NORTH	1415'	EAST	EDDY

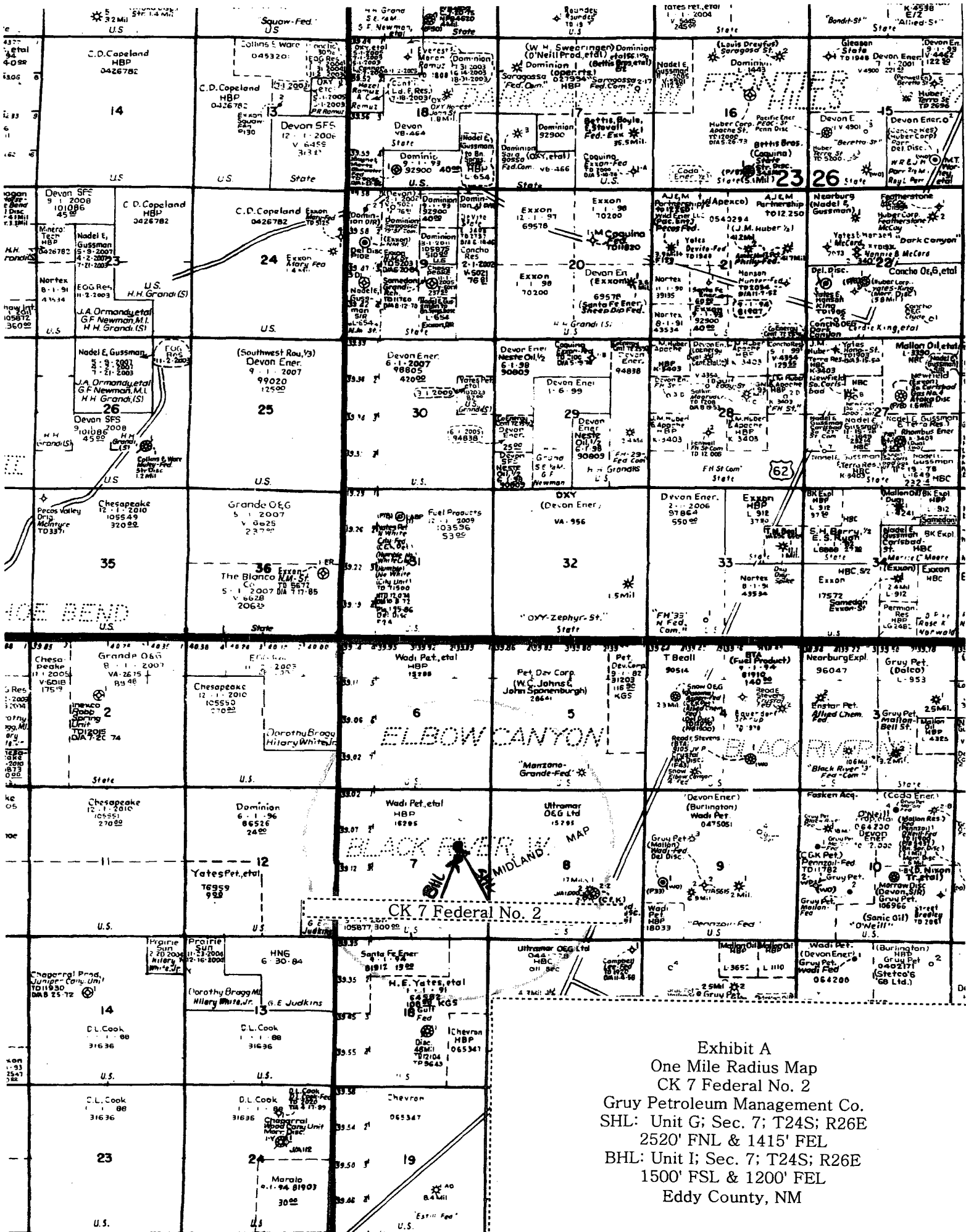
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	7	24-S	26-E		1500'	SOUTH	1200'	EAST	EDDY

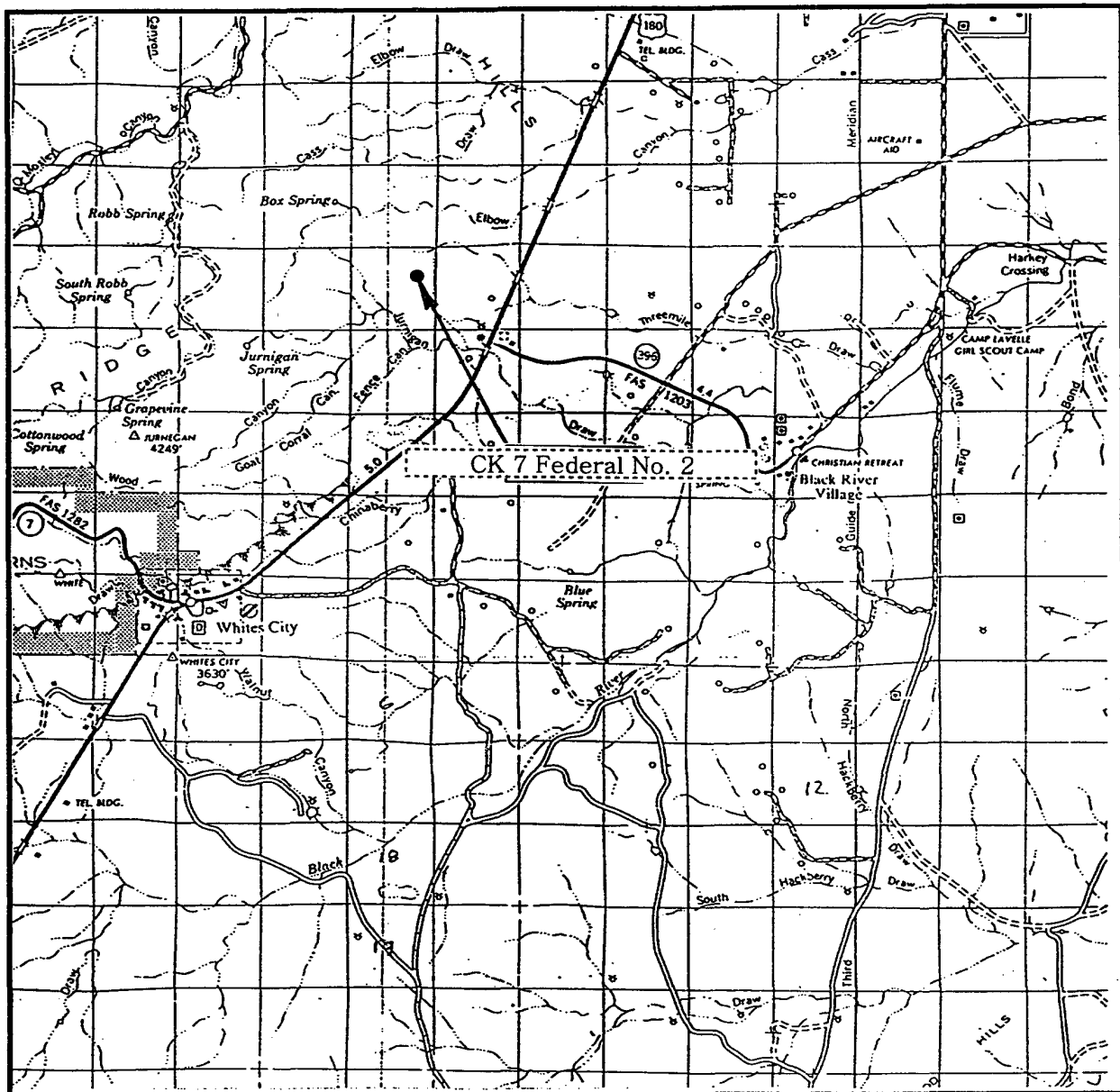
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	Y		

**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**

LOT 1			OPERATOR CERTIFICATION <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i> <i>Zeno Farris</i> Signature Zeno Farris Printed Name Manager Operations Admin Title Sept. 16, 2003 Date
LOT 2	<u>GEODETTIC COORDINATES</u> NAD 27 NME Y= 448053.4 N X= 501632.2 E LAT.= 32°13'54.54"N LONG.= 104°19'41.00"W		
LOT 3			
LOT 4		CK 7 Feder No. 2	SURVEYOR CERTIFICATION <i>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.</i> September 02, 2003 Date Surveyed AWB Signature & Seal of Professional Surveyor Certificate No. GARY HUDSON 12641



VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 7 TWP. 24-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 2520' FNL & 1415' FEL

ELEVATION 3758'

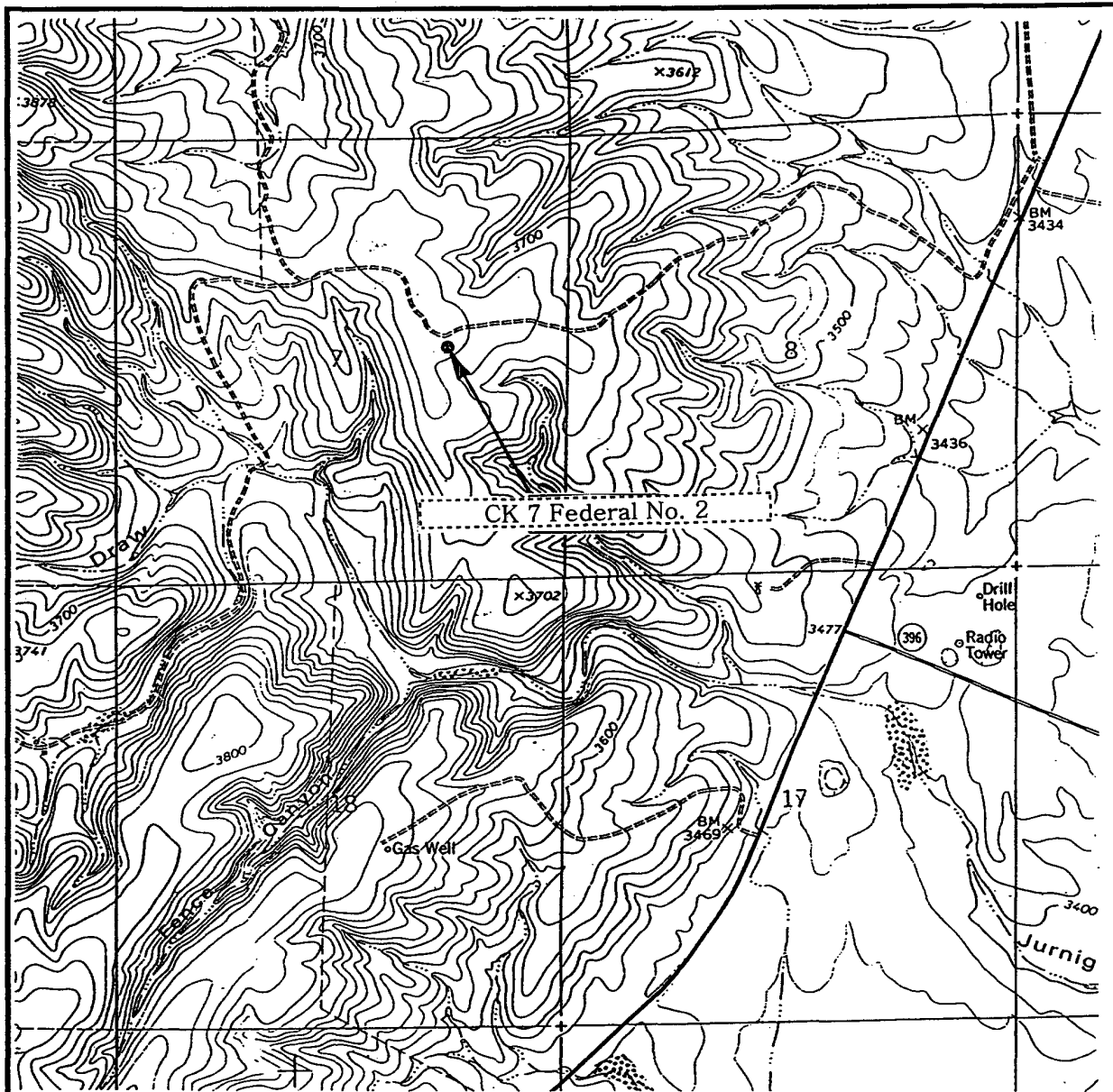
OPERATOR GRUY PETROLEUM MANAGEMENT CO.

LEASE CK 7

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

Exhibit "B"

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 20'
BLACK RIVER VILLAGE, N.M.

SEC. 7 TWP. 24-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 2520' FNL & 1415' FEL

ELEVATION 3758'

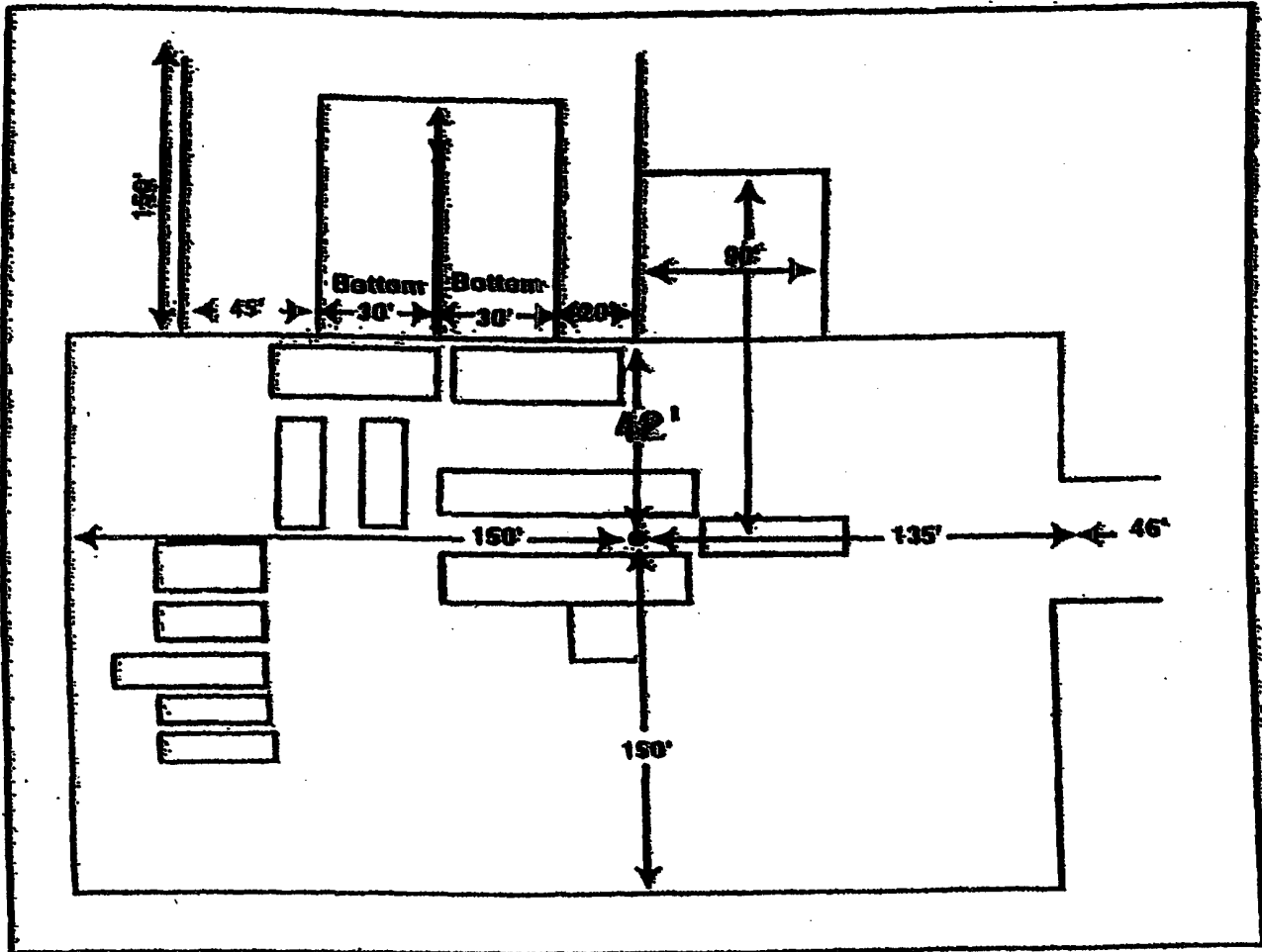
OPERATOR GRUY PETROLEUM MANAGEMENT CO.

LEASE CK 7

U.S.G.S. TOPOGRAPHIC MAP
BLACK RIVER VILLAGE, N.M.

Exhibit "C"

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117



Rig 75

Exhibit D
 Rig Layout Plan
 CK 7 Federal No. 2
 Gruy Petroleum Management Co.
 SHL: Unit G; Sec. 7; T24S; R26E
 2520' FNL & 1415' FEL
 BHL: Unit I; Sec. 7; T24S; R26E
 1500' FSL & 1200' FEL
 Eddy County, NM

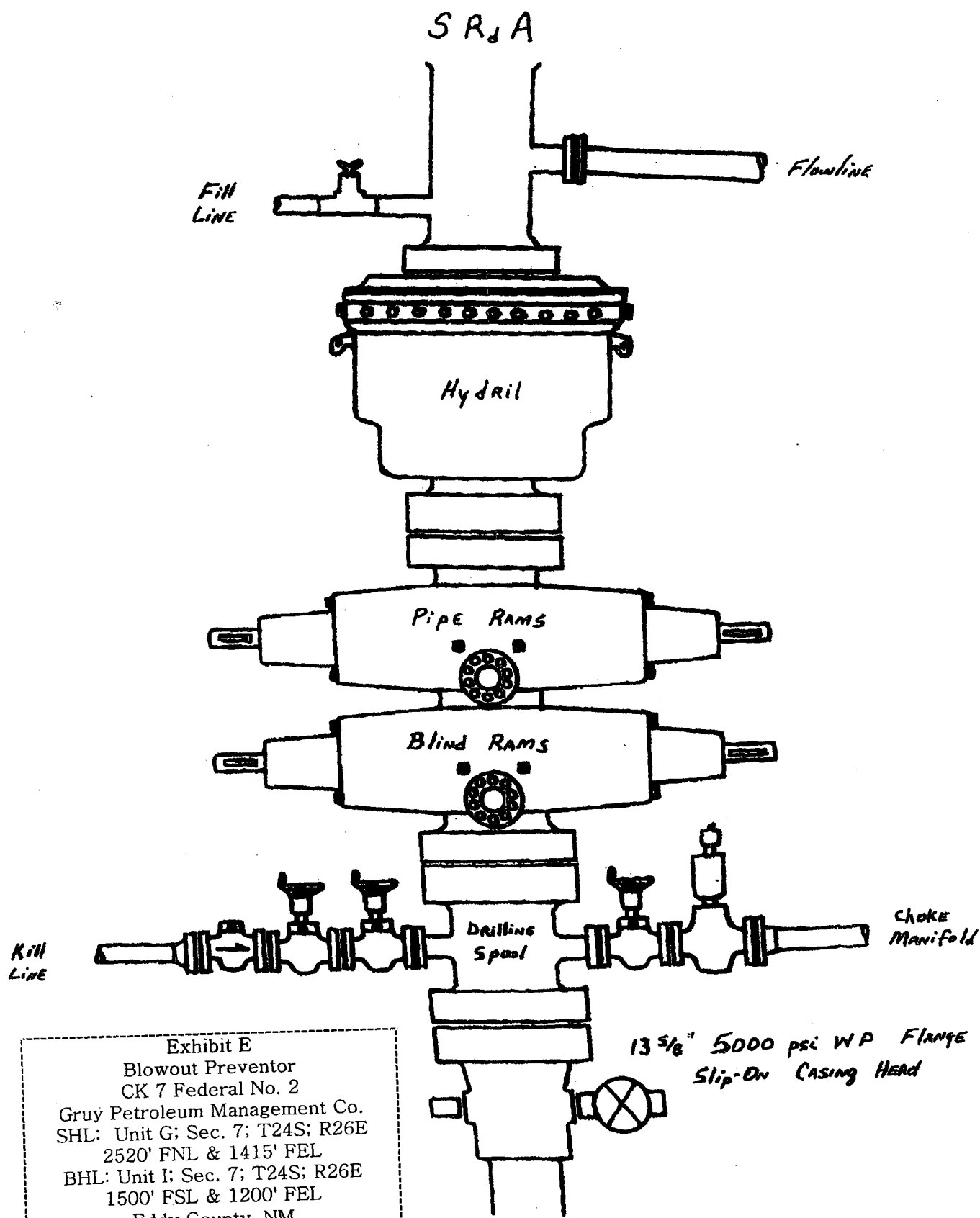


Exhibit E
 Blowout Preventor
 CK 7 Federal No. 2
 Gruy Petroleum Management Co.
 SHL: Unit G; Sec. 7; T24S; R26E
 2520' FNL & 1415' FEL
 BHL: Unit I; Sec. 7; T24S; R26E
 1500' FSL & 1200' FEL
 Eddy County, NM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Gruy Petroleum Management Co.

3a. Address
P.O. Box 140907 Irving, TX 75014-0907

3b. Phone No. (include area code)
972.401.3111

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL 2520' FNL & 1415' FWL Sec 7G 24S-26E
BHL 1500' FSL & 1200' FEL Sec 7I 24S 26E

5. Lease Serial No.
NM-15295

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
C K 7 Federal No. 2

9. API Well No.

10. Field and Pool, or Exploratory Area
White City; Undesignated

11. County or Parish, State
Eddy, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Well Pad Modification
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Attached is a new Well Pad Diagram for Patterson Rig No. 80 for the C K 7 Federal No 2 well, which is to be co-located with our C K 7 Fed No. 1. The Well Pad Diagram sent with the original APD is not of sufficient size for the Rig 80.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Zeno Farris

Title

Manager, Operations Administration

Signature

Zeno Farris

Date

October 13, 2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ Joe G. Lara

ACTING

FIELD MANAGER

Date

23 DEC 2003

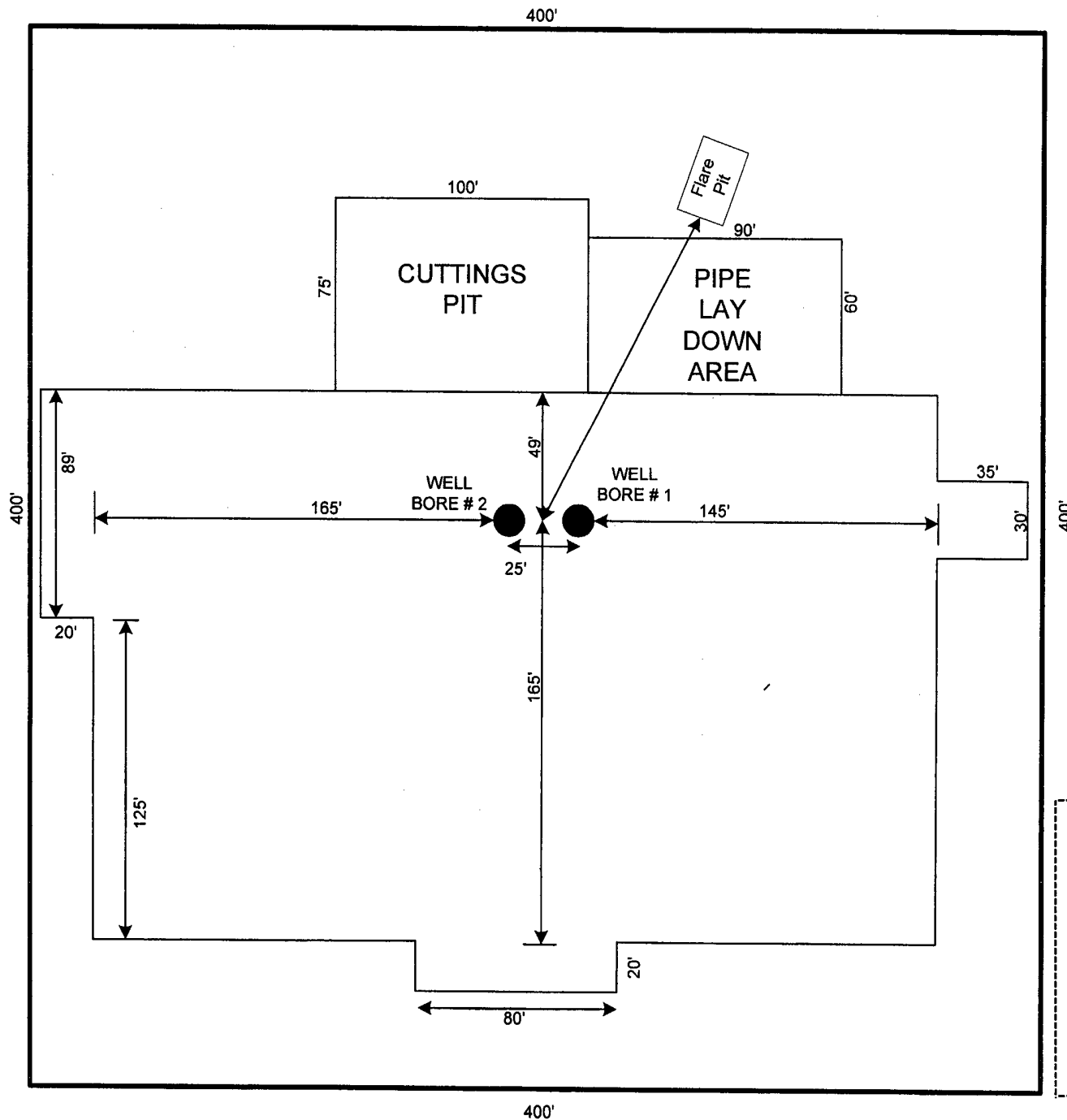
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001, makes 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.

(Instructions on reverse)



RIG # 80

**GRUY PETROLEUM
MANAGEMENT COMPANY
IRVING TEXAS**

SCALE 1"=60'

Exhibit "D"
Rig Layout Plan
Gruy Petroleum Management Co.
CK 7 Federal No. 2
SHL: Sec. 7G; T24S; R26E
2520' FNL & 1415' FWL
BHL: Sec. 7I; T24S; R26E
1500' FSL & 1200' FEL
Eddy County, NM

Application to Drill

Gruy Petroleum Management Co.
C K 7 Federal 2
Unit Letter G Section 7
T24S - R26E Eddy County, NM

12 Testing, Logging and Coring Program:

- A. Mud logging program: One-man unit from 8000' to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
- C. No DST's, or cores are planned at this time.

13 Potential Hazards:

No abnormal pressures or temperatures or H₂S gas are expected. Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 4000 PSI, estimated BHT 190.

14 Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 35 - 45 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Morrow / Atoka pay will be perforated and stimulated. The well will be tested and potentialed as a gas well.

600 East Las Colinas Blvd.
Suite 1100
Irving, TX 75039
972-401-3111 (phone)
469-420-2710 (fax)

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Gruy Petroleum Management Co

February 5, 2004

New Mexico Energy Mineral & Natural Resources Dept.
Oil Conservation Division
Attn: Mr. Bryan Arrant
1301 West Grand Avenue
Artesia, NM 88210

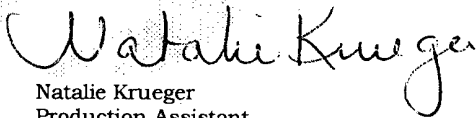
RE: CK 7 Federal No. 2
Unit G-Section 7-T24S-R26E
2520' FNL & 1415' FEL
Eddy County, New Mexico

Dear Mr. Arrant,

Enclosed please find (1) one original of the Preliminary Directional Survey and H2S plan for the above-referenced well.

If you have any questions or need further information, please contact Zeno Farris at 972-443-6489.

Sincerely,


Natalie Krueger
Production Assistant

RECEIVED

FEB 09 2004

OCD-ARTESIA

nkruieger@magnumhunter.com • • • • •

Application to Drill

Gruy Petroleum Management Co.
C K 7 Federal 2
Unit Letter G Section 7
T24S - R26E Eddy County, NM

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RECEIVED
FEB 09 2004
OCD-ARTESIA

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HALLIBURTON

Gruy Petroleum Management Co.

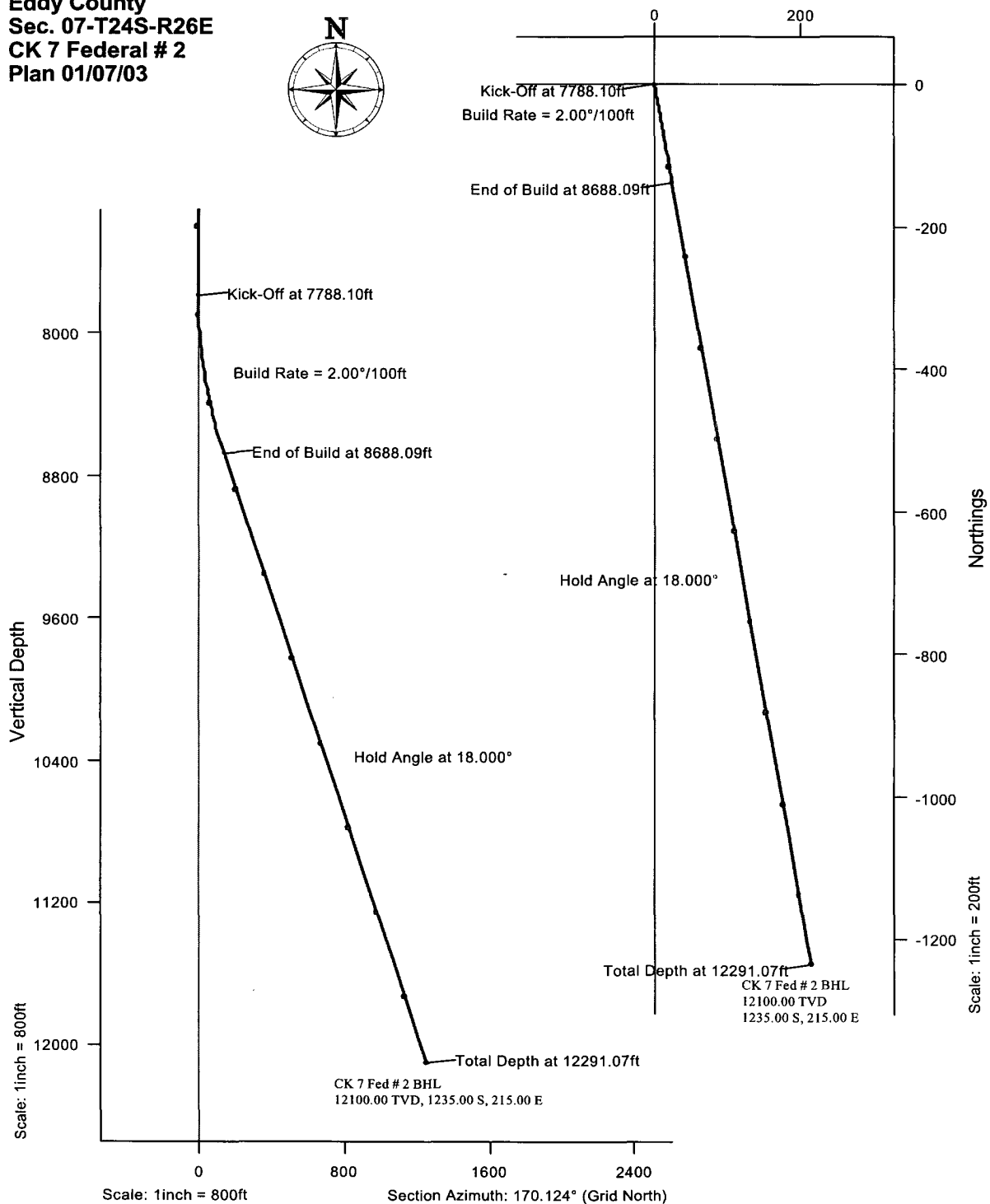
DrillQuest[®]

Sperry-Sun

New Mexico
Eddy County
Sec. 07-T24S-R26E
CK 7 Federal # 2
Plan 01/07/03



Scale: 1 inch = 200ft
Eastings



Vertical Section

Prepared by:

Admin

Date/Time:

7 January, 2004 - 15:00

Checked:

Approved:



**Gruy Petroleum Management Co.
New Mexico
Eddy County
CK 7 Federal # 2 - Plan 01/07/03**

Sperry-Sun

Proposal Report

7 January, 2004

Data Source: Information from Wade Wiley

Proposal Ref: pro7219

HALLIBURTON

Proposal Report for CK 7 Federal # 2 - Plan 01/07/03 Data Source: Information from Wade Wiley

Measured Depth (ft)	Incl.	Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coordinates		Global Coordinates		Dogleg Rate (°/100ft)	Vertical Section	Comment
					Northings (ft)	Eastings (ft)	Northings (ft)	Eastings (ft)			
0.00	0.000	0.000	-3758.00	0.00	0.00 N	0.00 E	448053.40 N	501632.20 E		0.00	
7788.10	0.000	0.000	4030.10	7788.10	0.00 N	0.00 E	448053.40 N	501632.20 E	0.00	0.00	Kick-Off at 7788.10ft
7800.00	0.238	170.124	4042.00	7800.00	0.02 S	0.00 E	448053.38 N	501632.20 E	2.00	0.02	
7900.00	2.238	170.124	4141.97	7899.97	2.15 S	0.37 E	448051.25 N	501632.57 E	2.00	2.19	
8000.00	4.238	170.124	4241.81	7999.81	7.72 S	1.34 E	448045.68 N	501633.54 E	2.00	7.83	
8100.00	6.238	170.124	4341.38	8099.38	16.71 S	2.91 E	448036.69 N	501635.11 E	2.00	16.96	
8200.00	8.238	170.124	4440.58	8198.58	29.12 S	5.07 E	448024.28 N	501637.27 E	2.00	29.56	
8238.09	9.000	170.124	4478.25	8236.25	34.75 S	6.05 E	448018.65 N	501638.25 E	2.00	35.27	Build Rate = 2.00°/100ft
8300.00	10.238	170.124	4539.28	8297.28	44.94 S	7.82 E	448008.46 N	501640.02 E	2.00	45.61	
8400.00	12.238	170.124	4637.36	8395.36	64.14 S	11.17 E	447989.26 N	501643.37 E	2.00	65.10	
8500.00	14.238	170.124	4734.70	8492.70	86.70 S	15.09 E	447966.70 N	501647.29 E	2.00	88.00	
8600.00	16.238	170.124	4831.18	8589.18	112.59 S	19.60 E	447940.81 N	501651.80 E	2.00	114.28	
8688.09	18.000	170.124	4915.36	8673.36	138.13 S	24.05 E	447915.27 N	501656.25 E	2.00	140.21	End of Build at 8688.09ft
8700.00	18.000	170.124	4926.69	8684.69	141.76 S	24.68 E	447911.64 N	501656.88 E	0.00	143.89	
8800.00	18.000	170.124	5021.79	8779.79	172.20 S	29.98 E	447881.20 N	501662.18 E	0.00	174.79	
8900.00	18.000	170.124	5116.90	8874.90	202.64 S	35.28 E	447850.76 N	501667.48 E	0.00	205.69	
9000.00	18.000	170.124	5212.00	8970.00	233.09 S	40.58 E	447820.31 N	501672.78 E	0.00	236.59	
9100.00	18.000	170.124	5307.11	9065.11	263.53 S	45.88 E	447789.87 N	501678.08 E	0.00	267.49	
9200.00	18.000	170.124	5402.22	9160.22	293.97 S	51.18 E	447759.43 N	501683.38 E	0.00	298.40	
9300.00	18.000	170.124	5497.32	9255.32	324.42 S	56.48 E	447728.98 N	501688.68 E	0.00	329.30	
9400.00	18.000	170.124	5592.43	9350.43	354.86 S	61.78 E	447698.54 N	501693.98 E	0.00	360.20	
9500.00	18.000	170.124	5687.53	9445.53	385.30 S	67.08 E	447668.10 N	501699.28 E	0.00	391.10	
9600.00	18.000	170.124	5782.64	9540.64	415.75 S	72.38 E	447637.65 N	501704.58 E	0.00	422.00	
9700.00	18.000	170.124	5877.74	9635.74	446.19 S	77.68 E	447607.21 N	501709.88 E	0.00	452.90	
9800.00	18.000	170.124	5972.85	9730.85	476.63 S	82.98 E	447576.77 N	501715.18 E	0.00	483.80	
9900.00	18.000	170.124	6067.96	9825.96	507.08 S	88.28 E	447546.32 N	501720.48 E	0.00	514.70	
10000.00	18.000	170.124	6163.06	9921.06	537.52 S	93.58 E	447515.88 N	501725.78 E	0.00	545.61	
10100.00	18.000	170.124	6258.17	10016.17	567.97 S	98.88 E	447485.43 N	501731.08 E	0.00	576.51	
10200.00	18.000	170.124	6353.27	10111.27	598.41 S	104.18 E	447454.99 N	501736.38 E	0.00	607.41	
10300.00	18.000	170.124	6448.38	10206.38	628.85 S	109.48 E	447424.55 N	501741.68 E	0.00	638.31	

Proposal Report for CK 7 Federal # 2 - Plan 01/07/03 **Data Source: Information from Wade Wiley**

Measured Depth (ft)	Incl.	Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coordinates		Global Coordinates		Dogleg Rate (°/100ft)	Vertical Section	Comment
					Northings (ft)	Eastings (ft)	Northings (ft)	Eastings (ft)			
10400.00	18.000	170.124	6543.48	10301.48	659.30 S	114.78 E	447394.10 N	501746.98 E	0.00	669.21	Hold Angle at 18.000°
10489.58	18.000	170.124	6628.68	10386.68	686.57 S	119.52 E	447366.83 N	501751.72 E	0.00	696.89	
10500.00	18.000	170.124	6638.59	10396.59	689.74 S	120.08 E	447363.66 N	501752.28 E	0.00	700.11	
10600.00	18.000	170.124	6733.70	10491.70	720.18 S	125.38 E	447333.22 N	501757.58 E	0.00	731.01	
10700.00	18.000	170.124	6828.80	10586.80	750.63 S	130.68 E	447302.77 N	501762.88 E	0.00	761.91	
10800.00	18.000	170.124	6923.91	10681.91	781.07 S	135.98 E	447272.33 N	501768.18 E	0.00	792.82	
10900.00	18.000	170.124	7019.01	10777.01	811.51 S	141.28 E	447241.89 N	501773.48 E	0.00	823.72	
11000.00	18.000	170.124	7114.12	10872.12	841.96 S	146.58 E	447211.44 N	501778.78 E	0.00	854.62	
11100.00	18.000	170.124	7209.23	10967.23	872.40 S	151.88 E	447181.00 N	501784.08 E	0.00	885.52	
11200.00	18.000	170.124	7304.33	11062.33	902.84 S	157.17 E	447150.56 N	501789.37 E	0.00	916.42	
11300.00	18.000	170.124	7399.44	11157.44	933.29 S	162.47 E	447120.11 N	501794.67 E	0.00	947.32	
11400.00	18.000	170.124	7494.54	11252.54	963.73 S	167.77 E	447089.67 N	501799.97 E	0.00	978.22	
11500.00	18.000	170.124	7589.65	11347.65	994.17 S	173.07 E	447059.23 N	501805.27 E	0.00	1009.12	
11600.00	18.000	170.124	7684.75	11442.75	1024.62 S	178.37 E	447028.78 N	501810.57 E	0.00	1040.03	
11700.00	18.000	170.124	7779.86	11537.86	1055.06 S	183.67 E	446998.34 N	501815.87 E	0.00	1070.93	
11800.00	18.000	170.124	7874.97	11632.97	1085.50 S	188.97 E	446967.90 N	501821.17 E	0.00	1101.83	
11900.00	18.000	170.124	7970.07	11728.07	1115.95 S	194.27 E	446937.45 N	501826.47 E	0.00	1132.73	
12000.00	18.000	170.124	8065.18	11823.18	1146.39 S	199.57 E	446907.01 N	501831.77 E	0.00	1163.63	
12100.00	18.000	170.124	8160.28	11918.28	1176.83 S	204.87 E	446876.57 N	501837.07 E	0.00	1194.53	
12200.00	18.000	170.124	8255.39	12013.39	1207.28 S	210.17 E	446846.12 N	501842.37 E	0.00	1225.43	
12291.07	18.000	170.124	8342.00	12100.00	1235.00 S	215.00 E	446818.40 N	501847.20 E	0.00	1253.57	Total Depth at 12291.07ft Target - CK 7 Fed # 2 BHL, Current Target

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Wellhead.
Global Northings and Eastings are relative to NAD27 New Mexico State Planes, Eastern Zone.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Wellhead and calculated along an Azimuth of 170.124° (Grid).

Coordinate System is NAD27 New Mexico State Planes, Eastern Zone.
Grid Convergence at Surface is 0.003°. Magnetic Convergence at Surface is -8.808° (07-Jan-04)

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Based upon Minimum Curvature type calculations, at a Measured Depth of 12291.07ft.,
The Bottom Hole Displacement is 1253.57ft., in the Direction of 170.124° (Grid).

Comments

Measured Depth (ft)	Station Coordinates			Comment
	TVD (ft)	Northings (ft)	Eastings (ft)	
7788.10	7788.10	0.00 N	0.00 E	Kick-Off at 7788.10ft
8238.09	8236.25	34.75 S	6.05 E	Build Rate = 2.00°/100ft
8688.09	8673.36	138.13 S	24.05 E	End of Build at 8688.09ft
10489.58	10386.68	686.57 S	119.52 E	Hold Angle at 18.000°
12291.07	12100.00	1235.00 S	215.00 E	Total Depth at 12291.07ft

Targets associated with this wellpath

Target Name	Target Entry Coordinates			Target Shape	Target Type
	TVD (ft)	Northings (ft)	Eastings (ft)		
CK 7 Fed # 2 BHL	12100.00	1235.00 S	215.00 E	Point	Current Target