F-06-33 3/13/06

	Artesia, N	88210	
Form 3160-3 (August 1999)	RECEIV!		FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000
UNITED STA	MAV 9 5 7	006 5. Leas	e Serial No. NM89879, NM89882
BUREAU OF LAND M	L III LINOI		ian, Allottee or Tribe Name
APPLICATION FOR PERMIT T			,
	REENTER	7. If Un	it or CA Agreement, Name and No.
1b. Type of Well: X Oil Well Gas Well C	other Single Zone		e Name and Well No. MESQUITE 3 FEDERAL #3H
2. Name of Operator HARVEY E. YATES COMPA	ANY 10179	9. API V	Vell No.
3a. Address PO BOX 1933, ROSWELL, NM 88202-1933	3b. Phone No. <i>(Include area</i> 505-623-6601	code) 10. Field	and Pool, or Exploratory B BONE SPRINGS NORTH (53)
4. Locationsofiliell-(Report location clearly and in acco	ordance with any State requiremen	ts.") 11. Sec.	T., R., M., or Bik. And Survey or Area
At surface 990' FSL & 990' FEL At proposed prod. Zone 1,260' FNL & 330' FEL		TE	3, T18S, R31E
Distance in miles and direction from nearest town o Bernard House South east of Loco Hills, New Mexico	r post omce"	12. Cou	ntv or Parish 13. State Eddy NM
16. Distance from proposed* location to nearest 990' property or lease line, ft. (Also to nearest drig. Unit line, if any)	16. No. of Acres in lease 160.12	17. Spacing Unit dec	ficated to this well
18. Distance from proposed location* to nearest well, drilling, completed 3,850' applied for, on this lease, ft.	19. Proposed Depth TVD 8,630' TMD 11,275'	20. BLM/BIA Bond N NM-B001795	n. on file MB 000317
21. Elevations (Show whether DF, KDB, RT, GL, etc) 3,751.8' GL	22. Approximate date work w June 16, 2006		nated duration /s after construction starts
	24. Attachments		
Csg: Hole size Grade, Size Csg Wt / ft 17 1/2" 13 3/8" J-55 54.5# 12 1/4" 8 5/8" J-55 32.0# 7 7/8" 5 1/2" J-55 17.0# 4 3/4" 3 1/2" P-110 9.3# Mud: 7920 to 11,275' MD Horizontal, mud up with Ba	,	nt circ'd nt circ'd ement nt to top of Liner Hal	nger
26. Signature	Name (Printed/Typed)		Date
Title Drilling Superintendent	Keith Cannon		3-10-06
Approved by Education J. Herrell	Name (Printed/Typed). Herr	ell	Date MAY 2 3 2006
TITLE FIELD MANAGER	Office CARLSBAI	FIELD OFFI	
Application approval does not warrant or certify the applicant holds le- operations theron.			entitle the applicant to conduct
Conditions of approval, if any, are attached Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make	it a crime for any person knowledy and wi		

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SHELL SHPULATIONS
ATTACHED

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisidiction

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

State of New Mexico Energy, Minerals and Natural Resources Department

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

DISTRICT III
1000 Rin Benzos Rd., Azioc, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

	,	All Diet	ent mort be trum the	outer boundaries (of the section		
Operator			Lesso				Well No.
Harve	ey E. Yate	es Company		Mesquite 1	ederal		3
Unit Latter	Section	Township	Resgo			County	
P	3	18 Sou	th	31 East	NMPM.	Edd	7
Actual Footage Loc	etics of Well:						<u></u>
990	feet from the	South	line and	990	feat from	te East	. line
Ground lovel Elev.	Page	ducing Formation	Peol	,,,,	HORE TRUES	us Las	Dedicated Acreage:
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2. If mor	e then one lease i	s dedicated to 🛳 well, o	outline such and identify th	e ownership thereo	(both as to working	bes interest and	royalty).
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		med to the well until all	interests have been consoli	dated (by communi	tization, unitization	, forced-poolin	g, or otherwise)
व्य साधि व	son-standard uni	it, eliminating such inten	est, has been approved by t	no Division.	·		
						OTHER AT	OR CERTIFICATION
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			·			Keith Cannon	
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Surface Use Plan

Harvey E. Yates Company Mesquite 3 Fed #3 Section 3, T18S, R31E Eddy County, New Mexico

1. Existing Roads:

Exhibit A is a portion of a New Mexico map showing the location of the proposed location. The location is approximately 16 miles Southeast of Loco Hills, NM. Leave Artesia on US 82 & travel East 31 miles & turn South on NM 222. Go 3.3 mile & turn left on caliche road. Go 1.6 turn right. Go .9 miles turn right into location.

2. Planned Access Roads:

No new road will be built to access this location.

3. Location of Existing Wells:

See EXHIBIT B From the surveying company / vicinity map

4. Location of Tank Batteries, Electric Lines, Etc:

In the event a producing well is drilled, a tank battery will be built on the location. See EXHIBIT D

5. Location and Type of Water Supply:

Water will be obtained from commercial sources.

6. Source of Construction Material:

We will use materials from a state or blm approved pits to build the location.

7. Methods of Handling Waste Disposal:

Waste will be handled in an approved manner. The wellsite will be cleaned of all waste within 30 days of final completion of the well.

8. Ancillary Facilities:

N/A

9. Wellsite Layout:

- a. EXHIBIT D shows the relative location and dimensions of the well pad, reserve pits, and major rig components.
- b. The land is relatively flat with sandy soil and sand dunes.
- c. The pad and pit area have been staked.

10. Plan for Restoration of the Surface:

- a. After drilling and completion operations are completed, all equipment and other materials not needed for further operations will be removed. Pits will be back filled and the location cleaned of all trash to leave the wellsite as pleasant in appearance as possible.
- b. If the proposed operation is nonproductive, all restoration and/or vegetation requirements of the BLM will be complied with, and will be accomplished as quickly as possible. All pits will be filled and leveled within 90 days after abandonment.

11. Other Information:

- a. The mineral and surface owner is the Federal Government.
- b. The topography consists of sandy soil with native grasses. No wildlife was observed, but the usual inhabitants of this region are Jackrabbits, Reptiles, Coyotes, etc.
- c. There are no ponds, lakes, or rivers in this area.
- d. An Archaeological Survey has been made and a copy has been sent to the Carlsbad BLM office. There is no evidence of any significant archaeological, historical, or cultural sites in the area. Further, there are no occupied dwellings or windmills in the area.
- e. Should any incidental oil be recovered during testing of this well, this oil will be considered waste oil and not sellable due to contamination by drilling and/or completion fluids.

12. Operator's Representative:

I 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; that the work associated with operations proposed herein will be performed by Harvey E. Yates Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Keith Cannon, Drilling Superintendent Harvey E. Yates Company P.O. Box 1933

Roswell, NM 505-623-6601

March 8, 2006

Application Harvey E. Yates Company Mesquite 3 Federal #3 990' FSL & 990' FEL Eddy County, New Mexico

In conjunction with Form 3160-3, Application For Permit To Drill Or Deepen subject well, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 10.

 Geologic Name of Surface Formation: Quaternary Allunium and Bolson deposits

2. Estimated Tops of Significant Geologic Markers:

<u>Formation</u>	<u>Depth</u>	
Rustler	765'	
Yates	2185'	
Seven Rivers	2595'	
Bowers	3045'	
Queen	3290'	
Penrose	3505'	
Grayburg	3780'	
San Andres	4410'	
Bone Spring	5145'	
Kick Off Point	7920'	T.V.D.
BSPG2 nd Sands	8020'	8020'
Base A Sands	8139'	8130'
Top B Sands	8384'	8300'
1 st Horz. Point	8630'	8350
BHL Target @ TD	11,274'	8150'

3. Estimated Depths at which Water, Oil, or Gas Formations are expected:

Formation	Depth	Remarks
BSPG 2 nd sand	8020'	

4. Proposed Casing Program:

See Form 3160-3

5. Pressure Control Equipment:

This well will be rated 2m but actual BOP is rated 5m

6. Drilling Fluid Program:

See Form 3160-3

7. Auxiliary Equipment:

H2S Compliance Package

8. Testing, Logging, & Coring Program:

Mud log and gamma ray mwd.

9. Abnormal Conditions, Pressures, Temperature, or Potential Hazards:

Possibility of H2S. Will have H2S Compliance Package

10. Anticipated Starting Date & Duration of Operation:

The anticipated starting date is set for as soon as possible after examination and approval of all drilling requirements. Duration of this project will be approximately 50 days from start of Construction of drilling pad until finish of completion operations

United States Department of the Interior

BUREAU OF LAND MANAGEMENT Roswell Resource Area P.O. Drawer 1857 Roswell, New Mexico 88202-1857

Statement Accepting Responsibilities for Operations

Operator Name: Harvey E. Yates Company

Street or Box:

P.O. Box 1933

City, State:

Roswell, New Mexico

Zip Code:

88202

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

Lease No.: NMNM-89879 and NMNM-89882

Lease Name: Mesquite 3 Fed #3H

Legal description of land: Sec 3, T18S, R31E, Eddy County, New Mexico

Formation(s) (if applicable): 2ND SAND "B"

Bond Coverage: Statewide Bond

BLM Bond File No.: NM-B001795 NMB 000317

Authorized Signature: 13 et la lace

Title: Drilling Superintendent

Date: March 8, 2006

HYDROGEN SULFIDE CONTINGENCY PLAN

SCOPE

THIS CONTINGENCY PLAN ESTABLISHES GUIDELINES FOR THE PUBLIC, ALL COMPANY EMPLOYEES WHO'S WORK ACTIVITIES MAY INVOLVE EXPOSURE TO HYDROGEN SULFIDE (H2S) GAS.

OBJECTIVE

- 1. PREVENT ANY AND ALL ACCIDENTS, AND PREVENT THE UNCONTROLLED RELEASE OF HYDROGEN SULFIDE INTO THE ATMOSPHERE.
- 2. PROVIDE PROPER EVACUATION PROCEDURES TO COPE WITH EMERGENCIES.
- PROVIDE IMMEDIATE AND ADEQUATE MEDICAL ATTENTION SHOULD AN INJURY OCCUR.

H2S CONTINGENCY PLAN

DISCUSSION

GEOLOGICAL PROGNOSIS

IMPLEMENTATION: THIS PLAN WITH ALL DETAILS IS TO BE FULLY

IMPLEMENTED AFTER DRILLING TO INTERMEDIATE

CASING POINT.

EMERGENCY RESPONSE

PROCEDURE:

THIS SECTION OUTLINES THE CONDITIONS AND DENOTES STEPS TO BE TAKEN IN THE EVENT OF AN EMERGENCY.

EMERGENCY EQUIPMENT

PROCEDURE:

THIS SECTION OUTLINES THE SAFETY AND EMERGENCY EQUIPMENT THAT WILL BE REQUIRED FOR THE DRILLING

OF THIS WELL.

TRAINING PROVISIONS: THIS SECTION OUTLINES THE TRAINING PROVISIONS THAT

MUST BE ADHERED TO PRIOR TO DRILLING TO

INTERMEDIATE CASING POINT.

DRILLING EMERGENCY CALL

LISTS:

INCLUDED ARE THE TELEPHONE NUMBERS OF ALL PERSONS TO BE CONTACTED SHOULD AN EMERGENCY

EXIST.

BRIEFING: THIS SECTION DEALS WITH THE BRIEFING OF ALL PEOPLE

INVOLVED IN THE DRILLING OPERATION.

PUBLIC SAFETY: PUBLIC SAFETY PERSONNEL WILL BE MADE AWARE OF

THE DRILLING OF THIS WELL.

CHECK LISTS: STATUS CHECK LISTS AND PROCEDURAL CHECK LISTS

HAVE BEEN INCLUDED TO INSURE ADHERENCE TO THE

PLAN.

GENERAL INFORMATION: A GENERAL INFORMATION SECTION HAS BEEN INCLUDED

TO SUPPLY SUPPORT INFORMATION.

and the second

EMERGENCY PROCEDURES

- A. IN THE EVENT OF ANY EVIDENCE OF H2S LEVEL ABOVE 10 PPM, TAKE THE FOLLOWING STEPS:
 - 1. SECURE BREATHING EQUIPMENT.
 - 2. ORDER NON-ESSENTIAL PERSONNEL OUT OF DANGER ZONE.
 - 3. TAKE STEPS TO DETERMINE IF THE H2S LEVEL CAN BE CORRECTED OR SUPPRESSED AND, IF SO, PROCEED IN NORMAL OPERATION.
- B. IF UNCONTROLLABLE CONDITIONS OCCUR:
 - 1. TAKE STEPS TO PROTECT AND/OR REMOVE ANY PUBLIC IN THE DOWN-WIND AREA FROM THE RIG PARTIAL EVACUATION AND ISOLATION.
 NOTIFY NECESSARY PUBLIC SAFETY PERSONNEL AND THE BUREAU OF LAND MANAGEMENT OF THE SITUATION.
 - 2. REMOVE ALL PERSONNEL TO SAFE BREATHING AREA.
 - 3. NOTIFY PUBLIC SAFETY PERSONNEL TO SAFE BREATHING AREA.
 - 4. PROCEED WITH BEST PLAN (AT THE TIME) TO REGAIN CONTROL OF THE WELL. MAINTAIN TIGHT SECURITY AND SAFETY PROCEDURES.
- C. RESPONSIBILITY:
 - 1. DESIGNATED PERSONNEL.
 - a. SHALL BE RESPONSIBLE FOR THE TOTAL IMPLEMENTATION OF THIS PLAN.
 - b. SHALL BE IN COMPLETE COMMAND DURING ANY EMERGENCY.
 - c. SHALL DESIGNATE A BACK-UP.

EMERGENCY PROCEDURES

*(Procedures are the same for both Drilling and Tripping)

en et galent verte :

ALL PERSONNEL:

1. ON ALARM, DON ESCAPE UNIT AND REPORT IN UP WIND BRIEFING AREA.

States at 1

- 2. CHECK STATUS OF PERSONNEL (BUDDY SYSTEM).
- 3. SECURE BREATHING EQUIPMENT.
- 4. AWAIT ORDERS FROM SUPERVISOR.

DRILLING FOREMAN:

- 1. REPORT TO UP WIND BRIEFING AREA.
- 2. DON BREATHING EQUIPMENT AND RETURN TO POINT OF RELEASE WITH TOOL PUSHER OR DRILLER (BUDDY SYSTEM).
- 3. DETERMINE H2S CONCENTRATIONS.
- 4. ASSESS SITUATION AND TAKE CONTROL MEASURES.

TOOL PUSHER:

- 1. REPORT TO UP WIND BRIEFING AREA.
- 2. DON BREATHING EQUIPMENT AND RETURN TO POINT OF RELEASE WITH DRILLING FOREMAN OR DRILLER (BUDDY SYSTEM).
- 3. DETERMINE H2S CONCENTRATION.
- 4. ASSESS SITUATION AND TAKE CONTROL MEASURES.

DRILLER:

- 1. DON ESCAPE UNIT.
- 2. CHECK MONITOR FOR POINT OF RELEASE.
- 3. REPORT TO BRIEFING AREA.
- 4. CHECK STATUS OF PERSONNEL (IN AN ATTEMPT TO RESCUE, USE THE BUDDY SYSTEM).
- 5. ASSIGNS LEAST ESSENTIAL PERSON TO NOTIFY DRILLING FOREMAN AND TOOL PUSHER BY QUICKEST MEANS IN CASE OF THEIR ABSENCE.
- 6. ASSUMES THE RESPONSIBILITIES OF THE DRILLING FORMAN AND TOOL PUSHER UNTIL THEY ARRIVE SHOULD THEY BE ABSENT.

EMERGENCY PROCEDURES

DERRICK MAN

 WILL REMAIN IN BRIEFING AREA UNTIL INSTRUCTED BY SUPERVISOR.

FLOOR MAN #1

FLOOR MAN #2

MUD ENGINEER:

1. REPORT TO BRIEFING AREA.

2. WHEN INSTRUCTED, BEGIN CHECK OF MUD FOR PH AND

H2S LEVEL. (GARETT GAS TRAIN.)

SAFETY PERSONNEL:

1. MASK UP AND CHECK STATUS OF ALL PERSONNEL AND

SECURE OPERATIONS AS INSTRUCTED BY DRILLING

FOREMAN AND REPORT TO BRIEFING AREA.

TAKING A KICK

WHEN TAKING A KICK DURING AN H2S EMERGENCY, ALL PERSONNEL WILL FOLLOW STANDARD BOP PROCEDURES AFTER REPORTING TO BRIEFING AREA AND MASKING UP.

OPEN-HOLE LOGGING

ALL UNNECESSARY PERSONNEL OFF FLOOR. DRILLING FOREMAN AND SAFETY PERSONNEL SHOULD MONITOR CONDITION, ADVISE STATUS AND DETERMINE NEED FOR USE OF AID EQUIPMENT.

RUNNING CASING OR PLUGGING

FOLLOWING HE AME "TRIPPING" PROCEDURE AS ABOVE. DRILLING FOREMAN AND SAFETY PERSONNEL SHOULD DETERMINE IF ALL PERSONNEL HAVE ACCESS TO PROTECTIVE EQUIPMENT.

Mesquite 3 Fed #3H – Procedure

- 1. Build Location.
- 2. Dig out cellar and weld on 8-5/8" head.
- 3. NU BOP & RU reverse equipment.
- 4. Drill out surface plug. Pressure test.
- 5. Drill out cmt plug @ 400'. Pressure test.
- 6. Drill out 5-1/2" csg stub plug.
- 7. Change out to 4-3/4" bit.
- 8. Attempt to enter 5-1/2" csg stub.
- 9. If successful, POOH & GIH w/ csg spear. Set spear inside csg stub. Pull to check casing.
- 10. If okay, release spear & POOH. GIH and drill out plug @ 3,470-3,685' & plug @ 5,987'-6,237'. POOH.
- 11. GIH to approx. 6000' and chemical cut.
- 12. POOH and lay down csg.
- 13. GIH w/ slipover jt & 5-1/2" csg. Circulate cement.
- 14. Drill out CIBP @ 7424'.
- 15. Test CIBP @ 7700'.
- 16. Cmt squeeze perfs @ 7467' 7481'.
- 17. Drill out & test squeezed perfs.
- 18. Drill out CIBP @ 7700'.
- 19. Set new CIBP @ 7900' +/-.
- 20. Set whipstock on CIBP @ 7900', kick off, build curve and be horizontal in accordance with geoprog and drill lateral.

EXHIBIT "C" BOP STACK

Mesquite 3 Fed #3 990' FSL & 990' FEL Sec 3, T18S, R31E Eddy County, NM

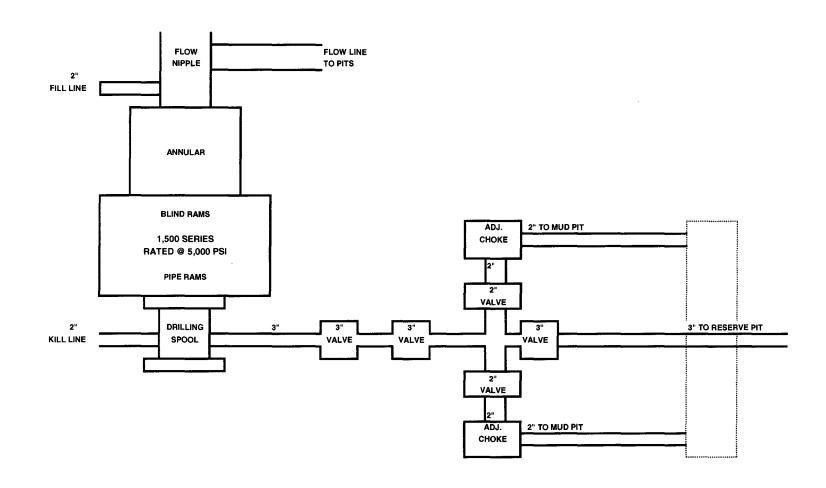
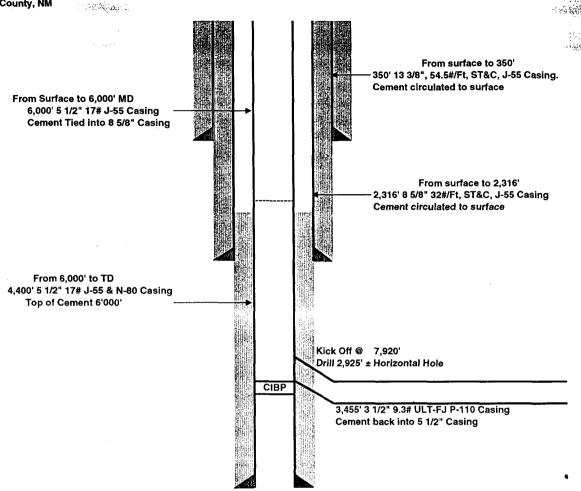


EXHIBIT "E" CASING DESIGN

Mesquite 3 Fed #3 990' FSL & 990' FEL Sec 3, T18S, R31E Eddy County, NM

13 3/8", 8 5/8" Casings are in place and cemented.





2105 market Street Midland, TX 79703 Ph. (432)694-9517 Fax. (432)694-5648

Directional/Horizontal Plan Report

Heyco Energy

Mesquite 3 Federal #3

Eddy County, NM

Plan #1

Prepared By Oscar Gomez Friday, February 24, 2006

Heyco Energy Mesquite 3 Federal #3,slot #1 ,Eddy County New Mexico

PROPOSAL LISTING Page 1 Your ref : Plan 1 Last revised : 24-Feb-2006

efet. Tipos

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4300.00	0.00	12.29	4300.00	0.00 N	0.00 E		0.00
4400.00	0.00	12.29	4400.00	0.00 N	0.00 E		0.00
4500.00	0.00	12.29	4500.00	0.00 N	0.00 E	0.00	0.00
4600.00	0.00	12.29	4600.00	0.00 N	0.00 E		0.00
4700.00	0.00	12.29	4700.00	0.00 N	0.00 E		0.00
4800.00	0.00	12.29	4800.00	0.00 พ	0.00 E		0.00
4900.00	0.00	12.29	4900.00	0.00 ห	0.00 E	0.00	0.00

All data is in feet unless otherwise stated.

Coordinates from structure and TVD from rotary table.

Bottom hole distance is 3101.00 on azimuth 12.29 degrees from wellhead.

Vertical section is from N 0.00 E 0.00 on azimuth 12.29 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

Heyco Energy Mesquite 3 Federal #3,slot #1 ,Eddy County New Mexico

PROPOSAL LISTING Page 2 Your ref : Plan 1 Last revised : 24-Feb-2006

La Santa

Measured Depth		Azimuth Degrees	True Vert Depth	RECTANG COORDIN		Dogleg Deg/100ft	Vert Sect	
5000.00	0.00	12.29	5000.00	0.00 N	0.00 1	E 0.00	0.00	
5100.00	0.00	12.29	5100.00	0.00 N	0.00 1		0.00	
5200.00	0.00	12.29	5200.00	0.00 N	0.00 1		0.00	
5300.00	0.00	12.29	5300.00	0.00 N	0.00 1		0.00	
5400.00	0.00	12.29	5400.00	0.00 N	0.00 1	E 0.00	0.00	
5500.00	0.00	12.29	5500.00	0.00 N	0.00 1		0.00	
5600.00	0.00	12.29	5600.00	0.00 N	0.00 1		0.00	
5700.00	0.00	12.29	5700.00	0.00 N	0.00 1		0.00	
5800.00 5900.00	0.00 0.00	12.29 12.29	5800.00 5900.00	0.00 N 0.00 N	0.00		0.00 0.00	
3900.00	0.00	12.29	3900.00	U.UU N	0.00	E. U.UU	0.00	
6000.00	0.00	12.29	6000.00	0.00 พ	0.00	E 0.00	0.00	
6100.00	0.00	12.29	6100.00	0.00 N	0.00		0.00	
6200.00	0.00	12.29	6200.00	0.00 N	0.00		0.00	
6300.00	0.00	12.29	6300.00	0.00 N	0.00	E 0.00	0.00	
6400.00	0.00	12.29	6400.00	0.00 N	0.00	E 0.00	0.00	
6500.00	0.00	12.29	6500.00	0.00 N	0.00		0.00	
6600.00	0.00	12.29	6600.00	0.00 N	0.00		0.00	
6700.00	0.00	12.29	6700.00	0.00 N	0.00		0.00	
6800.00	0.00	12.29	6800.00	0.00 N	0.00		0.00	
6900.00	0.00	12.29	6900.00	0.00 1	0.00	E 0.00	0.00	
7000.00	0.00	12.29	7000.00	0.00 N	0.00	E 0.00	0.00	
7100.00	0.00	12.29	7100.00	0.00 N	0.00		0.00	
7200.00	0.00	12.29	7200.00	0.00 N	0.00	E 0.00	0.00	
7300.00	0.00	12.29	7300.00	0.00 N	0.00	E 0.00	0.00	
7400.00	0.00	12.29	7400.00	0.00 N	0.00	E 0.00	0.00	
7500.00	0.00	12.29	7500.00	0.00 N	0.00	E 0.00	0.00	
7600.00	0.00	12.29	7600.00	0.00 N	0.00		0.00	
7700.00	0.00	12.29	7700.00	0.00 N	0.00		0.00	
7800.00	0.00	12.29	7800.00	0.00 N	0.00		0.00	
7900.00	0.00	12.29	7900.00	0.00 N	0.00		0.00	
				secretoronse				
8000.00	10.62	12.29	7999.54	7.23 N	1.58		7.40	The state of the s
8100.00	23.90	12.29	8094.82	36.16 N	7.88	E 13.28	37.01	
								tareassanaat
and the state of t	Charles Waltershift	mary studential Paper page 10. 13	A Committee of the Comm	alekterin (h. 1931). 1977 - galena allemenende hedisikat in lande alekterioù e tr	والإوارات فيهافه البارسية والمساحدة والمتارك الماروي والم	en elistrat duri protessamentes per l'estre	Grand of Brights and Contractions	ration from the Earling of Mark The Complete Security of
8200.00	37.18	12.29	8180.75	85.71 N	18.67	E 13.28	87.72	
8300.00	50.46	12.29	8252.74	153.21 N	33.38		156.81	
								ENERGINETE.
8400.00	63.74	12.29	8306.93	235.07 N	51.21		240.59	
8500.00	77.02	12.29	8340.43	326.90 N	71.22	E 13.28	334.57	
8600.00	90.30	12.29	8351.44	423.80 N	92.33	E 13.28	433.74	
			8350,21					
9000.00	94.34	12.29	8322.22	813.56 N	177.24		832.65	
9500.00	94.34	12.29	8294.37	1300.70 N	283.36		1331.21	
10000.00	94.34	12.29	8246.52	1787.84 N	389.49		1829.78	
10500 55								
10500.00	94.34	12.29	8208.66	2274.98 N	495.61		2328.34	
11000.00	94.34	12.29	8170.81	2762.12 N	601.73		2826.91	
	6-3-134J		P10770190	(3029,93) N	, -, o o o , o o -		STATE VOLUME	

All data is in feet unless otherwise stated.

Coordinates from structure and TVD from rotary table.

Bottom hole distance is 3101.00 on azimuth 12.29 degrees from wellhead.

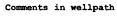
Vertical section is from N 0.00 E 0.00 on azimuth 12.29 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

Heyco Energy Mesquite 3 Federal #3,slot #1 ,Eddy County New Mexico

PROPOSAL LISTING Page 3 Your ref : Plan 1 Last revised : 24-Feb-2006



MD	TVD	Rectangular	Coords.	Comment	1.0			
7920.00	7920.00	0.00 N	0.00 E	KOP				
8020.92	8020.00	11.48 N	2.50 E	Top BSPG 2nd Sand				
8139.33	8130.00	53.31 N	11.61 E	Base BSPG2 'A' Sand				
8384.87	8300.00	221.93 N	48.35 E	Top BSPG2 'B' Sand				
8630.41	8350.21	453.48 N	98.79 E	EOC				
11274.88	8150.00	3029.93 N	660.08 E	TD				

Targets associated with this wellpath

Target name	Geographic		-	Coordinates	Revised
TD		 8150.00	3029.93N		6-Sep-2005



400

600

INTEQ

<- True Vertical Depth (feet)

Heyco Energy

Structure : Mesquite 3 Federal #3

Field :

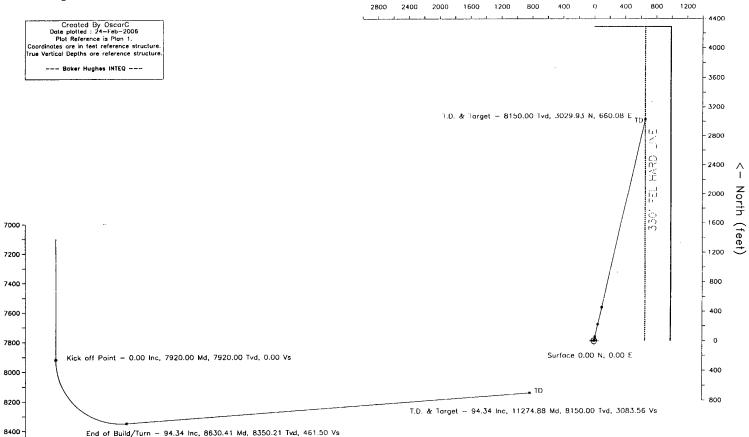
Slot : slot #1

Location : Eddy County New Mexico

<- West (feet)

24-Feb-2806 (source: RCGV)

Wognetin North is 8.40 depress East of True North
GRID North is 0.24 degress East of True North
To correct symuth from True to ORID subhard 0.26
To porsed symuth from Magnetic to CRID odd 8.14



800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600

Vertical Section (feet) -> Azimuth 6.21 with reference 0.00 N, 0.00 E from structure

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Harvey E Yates Company

Well Name & No. Mesquite 3 Federal #3H - REENTRY

SH Location: 990' FSL, 990 FEL, Section 3, T. 18 S., R. 31 E., Eddy County, New Mexico 1260' FNL, 330' FEL, Section 3, T. 18 S., R. 31 E., Eddy County, New Mexico

Lease: NM-89879

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I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:

A. Well spud

. . . .

B. Casing in place: 13-3/8 inch at 350', cement circulated

8-5/8 inch at 2316', cement circulated

5-1/2 inch from approximately 1428' to 10,400', TOC @ 6000'

C. BOP tests

- 2. A Hydrogen Sulfide (H2S) Drilling Operation Contingency Plan shall be activated prior to drilling into the _Queen formation. A copy of the plan shall be posted at the drilling site.
- 3. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15-day time frame.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

II. CASING:

- 1. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>to reach at least 500 feet above the top of the uppermost hydrocarbon productive interval</u>.
- 2. the minimum required fill of cement behind the 3-1/2 inch production liner is to reach the top of the liner.

III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the <u>8-5/8</u> inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 2000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.