Form 3160-3 (April 2004)

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

UNITED STATES DEPARTMENT OF THE INTERIOR

Lease Serial No.
NMSF-080384

BUREAU OF LAND MAN	AGEMENT	YED	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
APPLICATION FOR PERMIT TO	DOLL OF GEOLEGISMIN	IGTON	If Indian, Allotee	or Tribe N	Name
APPLICATION FOR PERMIT TO	DRILL OR REENTER		N/A		
la. Type of work: DRILL REENTE	ER .	· , ,	7. If Unit or CA Agree	ement, Na	me and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone . ✓ Multip	le Zone	8. Lease Name and V SULLIVAN 15		
2. Name of Operator MERRION OIL & GAS CORPORATION			9. API Well No. 30-045- 34	1309	
3a. Address 610 REILLY AVE. FARMINGTON, NM 87401	3b. Phone No. (include area code) (505) 324-5300		10. Field and Pool, or I	Exploratory L-P & B	y WCBasin Mances AS, DAK.
4. Location of Well (Report location clearly and in accordance with any At surface 1730' FSL & 829' FEL At proposed prod. zone SAME	y State requirements.*)		11. Sec., T. R. M. or B		vey or Area
14. Distance in miles and direction from nearest town or post office* 16 AIR MILES SSE OF FARMINGTON			12. County or Parish SAN JUAN		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 829'	16. No. of acres in lease 640	5E4	g Unit dedicated to this w - Marcos I 60 + (Gallup) & S2 (Dak		÷0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,613' (Sullivan 9)	19. Proposed Depth 6,240'	20. BLM/I NM-0	BIA Bond No. on file RCU	ID DEC	20'07
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,202' GL	22 Approximate date work will star 09/01/2007	t*	23. Estimated duraffor 2 WEEKS	L CON	S. DIV.
	24. Attachments			DIST	. 3
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No.1, shall be at	tached to th	is form:	*****	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	Item 20 above).	•	ns unless covered by an	existing b	ond on file (see
SUPO shall be filed with the appropriate Forest Service Office).		specific info	ormation and/or plans as	may be re	equired by the
25. Signature	Name (Printed/Typed) BRIAN WOOD			Date 05/0	3/2007

	(HOCK	BRIAN WOOD		05/03/2007
Title	CONSULTANT	PHONE: (505) 466-8120	FAX: (505) 466-9682	
Approved l	by (Signature) Marleels of	Name (Printed/Typed)		Date /2/18/07
Title	Ata	Office FTS		

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.

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.

*(Instructions on page 2)

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165.4

NWOCD

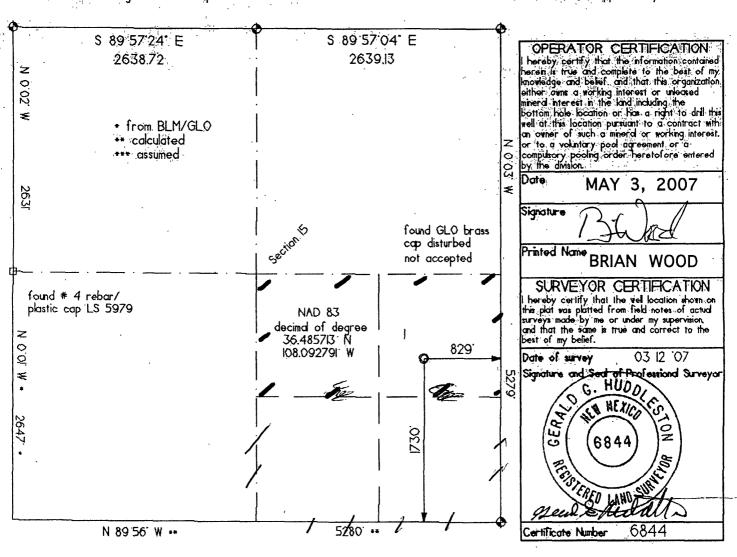
State of New Mexico

2007 MAY 7 AM 9 39 Form C - 102 Energy. Minerals & Mining Resources Department RECEIVED in to Appropriate District Office Office State Lease - 4 Copies OIL CONSERVATION DIVISION 070 FARMINGTON NM Fee Lease - 4 Copies

1625 N. French Dr., Hobbs, NM 88240 District I 1301 W. Grand Ave. Artesia, NM 88210 District II 1000 Rio Brazos Rd. Aztec NM 87410 District IV

1220 S. St Francis Dr., Santa Fe. NM 87505 MENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number 30-045- 34309 IN GEBaSAN Masseds Property Code Well Number Property Name 36905 Sullivan 15 OGRD No. **Bevation** Operator Name 014634 6202 MERRION OIL & GAS Surface Location UL or Lot Sec. Feet from> North/South Feet from> East/West County Lot lon Typ. Rge. San Juan 829 15 26 N. 12 W 1730 South East Bottom Hole Location If Different From Surface East/West UL or Lot Feet from North/South Feet from> County Typ. Dedicated Acres SE Joint or Infil Consolidation Code Order No. 80

No diswable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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

2007 MAY 7 AM 9 39 State of New Mexico

Energy. Minerals & Mining Resources Departm OIL CONSERVATION DIVISION FARMINGTON NM

Form C - 102 Revised October 12, 2005 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

MENDED REPORT ATION AND ACDEAGE DEDICATION PLAT

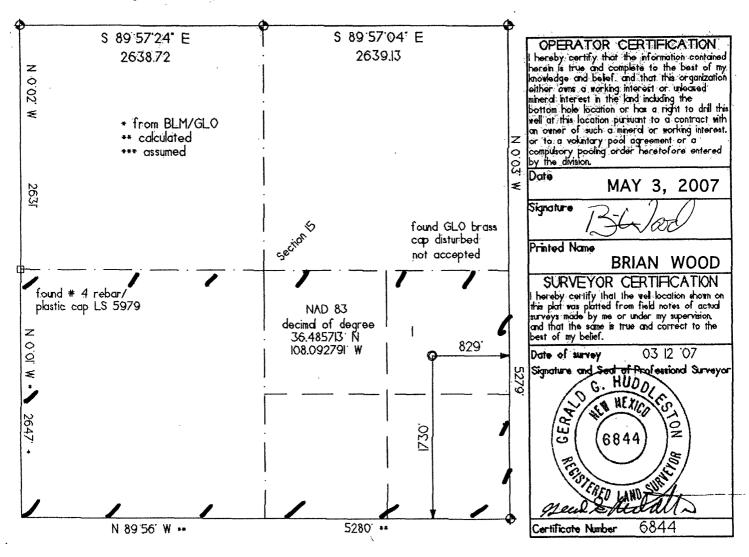
APA Num	ber	Pool Code	Peal Name	
30-045-	34309	71599	BASIN DAKOTA	
Property Code		Properi	y Name	Well Number
36905	!	Sullivo	ın 15	i
OGRID No.		Operato	r None	Bevotion
014634		MERRION C	L & GAS	6202

Santa Fe. NM 87505

Surface Location Feet Froms North/South County Lot lon. Feet from> Eost/West UL or Lot Sec Τπρ. Rge. San Juan 829 East 15 1730 South 26 N. 12 W.

Battam Hole Location If Different From Surface County Feet From> North/South Feet from> East/West UL or Lot Sec. Trp. Rge. Dedicated Acres Consolidation Code Order No. Joint or Infill 5/2 320

No dlowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



District II 1000 Rio Brazos Rd., Aztec, NM 87410 District IV OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 WELL API NO. 30-045- 3 4 3 5 1 30-045- 3 1 30-045- 3 1 Strate Type of Lease STATE FEE 6. State Oil & Gas Lease No.	y 27, 2004
District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 30-045- 343- 345- 343- 345- 345- 345- 345- 3	
1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV OIL CONSERVATION DIVISION 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No.	
District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV Santa Fe, NM 87505 STATE FEE 6. State Oil & Gas Lease No.	
<u>District IV</u> Santa Fe, Nivi 87303 6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505 NMSF-080384	
SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement	Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) SULLIVAN 15	
1. Type of Well: Oil Well Gas Well Other 8. Well Number #1	
2. Name of Operator MERRION OIL & GAS CORPORATION 9. OGRID Number 014634	
3. Address of Operator 10. Pool name or Wildcat	
610 REILLY AVE., FARMINGTON, NM 87401 GAL'GOS GALLUP & BASIN DA	AKOTA
4. Well Location	
Unit Letter: J 1730' FSL & 829' FEL	
	ounty
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	
6,202' GL Pit or Below-grade Tank Application or Closure	
Pit type: <u>DRILLING</u> Depth to Groundwater: >100' Distance from nearest fresh water well: >1,000' Distance from nearest surface water: >500'	
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; Construction Material	
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK PLUG ALTERING CAS	ING E
<u> </u>	
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Merrion Oil & Gas Corporation Sullivan 15 #1 1730' FSL & 829' FEL Sec. 15, T. 26 N., R. 12 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	O'	12'	+6,202'
Ojo Alamo	262'	274'	+5,940'
Kirtland Shale	452'	464'	+5,750'
Fruitland	1,037'	1,049'	+5,165'
Main Fruitland	1,372'	1,384'	+4,830'
Pictured Cliffs	1,392'	1,404'	+4,810'
Lewis Shale	1,492'	1,504'	+4,710'
La Ventana	2,232'	2,244'	+3,970'
Menefee Shale	2,862'	2,874'	+3,340'
Point Lookout Sandstone	3,917'	3,929'	+2,285'
Mancos Shale	4,132'	4,144'	+2,070'
Gallup Sandstone	4,942'	4,944'	+1,260'
Greenhorn Limestone	5,822'	5,834'	+380'
Dakota Sandstone	5,982'	5,994'	+220'
Total Depth (TD)	6,240'	6,128'	-30'

2. NOTABLE ZONES

<u>Gas & Oil Zones</u>	<u>Water Zones</u>	<u>Coal Zones</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Fruitland	
Gallup		
Dakota		

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded.



Merrion Oil & Gas Corporation Sullivan 15 #1 1730' FSL & 829' FEL Sec. 15, T. 26 N., R. 12 W. San Juan County, New Mexico

3. PRESSURE CONTROL

The drilling contract has not been awarded. Thus, the exact BOP model to be used is not yet known. (A typical double ram 2,000 psi model is on PAGE 3.) Minimum working pressure will be 2,000 psi. Pressure calculations are:

0.29 psi/foot x 6,240' = 1,810 psi maximum expected bottom hole pressure $\frac{-0.22 \text{ psi/foot x 6,240'}}{437 \text{ psi maximum expected surface pressure}}$

BOP pressure tests will be conducted at time of installation and before drilling out the surface casing shoe. Ram type preventer will be tested to $\approx 1,000$ psi. The BOP will be activated on each bit trip and the activation recorded in the driller's log. A 2,000 psi working pressure choke manifold, kill line from the mud pump, and kelly cock valve will be installed. Stabbing valves for drill pipe and drill collars will be available on the rig floor.

4. CASING & CEMENT

Hole Size	<u>O. D.</u>	Pounds/Foot	<u>Grade</u>	<u>Age</u>	Connections	Depth Set
12-1/4"	8-5/8"	24	J-55	New	ST&C	320'
7-7/8"	4-1/2"	11.6	J-55	New	LT&C	6,120 '
						(₆ 240'

Surface casing will be cemented to surface with ≈ 264 cubic feet (≈ 224 sacks) Class B neat + 1/4 pound per sack cello-flake + 2% to 4% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.6 pounds per gallon. Excess = 100%. A centralizer will be placed on the bottom joint.

Production casing hole will be cemented in two stages to the surface with $\approx 2,162$ cubic feet. Excess: $\geq 50\%$ (actual volumes will be based on caliper survey). DV tool will be ≈ 50 ' below the top of the Mancos shale. Thus, DV tool will be set at $\approx 4,185$ '. Will install 2 centralizers to bracket DV tool, ≈ 6 centralizers over Dakota, and ≈ 8 centralizers over Gallup.



Merrion Oil & Gas Corporation Sullivan 15 #1 1730' FSL & 829' FEL Sec. 15, T. 26 N., R. 12 W. San Juan County, New Mexico

First stage (\approx 2,055') of long string cement will cover Gallup and Dakota zones. Lead with \approx 245 sacks Premium light high strength with 2% KCl + 0.2% CD-32 + 0.5% FL-52 + 1/2 pound per sack cello flake + 2% pheno seal (= 2.01 cubic feet per sack & 12.5 pounds per gallon. Tail with \approx 150 sacks Type III + 0.3% CD-32 + 0.2% FL-52 + 5% A-10 + 1/4 pound per sack cello flake 2% pheno seal (= 1.54 cubic feet per sack & 14.2 pounds per gallon).

Second stage of cement will cover $\approx 4,185$ ' from DV tool to surface. Lead with ≈ 500 sacks Type III + 1/4 pound per sack flake + 8% gel + 2% pheno seal (= 2.60 cubic feet per sack & 11.9 pounds per gallon). Tail with ≈ 100 sacks Type III neat (=1.39 cubic feet per sack & 14.5 pounds per gallon).

5. MUD PROGRAM

Surface hole will be drilled with fresh water based spud mud at ≈ 8.4 pounds per gallon. Lime and gel will be added as needed for viscosity. Production hole will be drilled with a fresh water based low solids non dispersed mud with a weight of <9.0 pounds per gallon and water loss of <10 cc. Starch will be added as needed. Producing or sensitive zones will be air drilled.

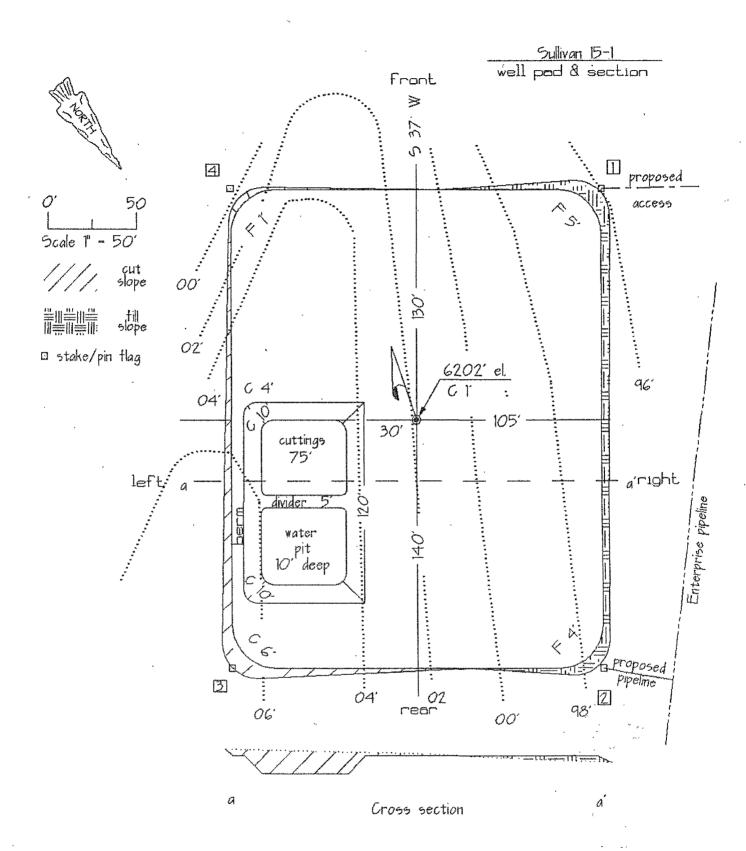
6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. DIL-FDC-GR logs will be run from TD to the base of the surface casing.

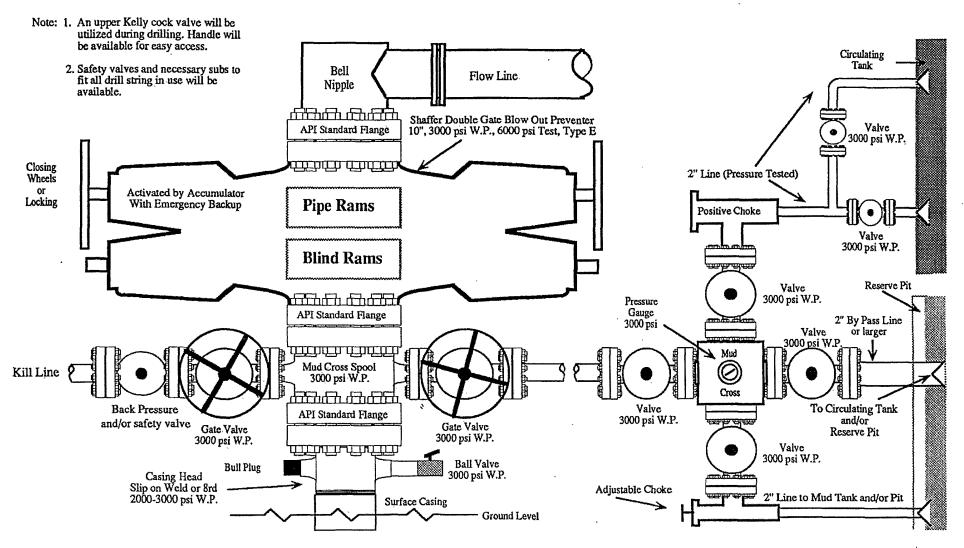
7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected.





2,000 PSI BOP SYSTEM



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.