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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

<u>DISTRICT II</u> P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

The section of the se		All Distances	must be from the outer boundaries		Well No.
Operator		**			13
Unit Letter	TA PRODUCTIO		NASH UNIT	County	15
K	12	Township 23 SOUTH	Range 29 EAST	T	DDY COUNTY, NM
Actual Footage Loc		23 30018	29 2831	NMPM P	
	feet from the	WEST ji	ne and 2315	feet from the	OUTH line
Ground level Elev.	Produci	ng Formation	Pool		Dedicated Acreage:
2976	• Dela	ware	Nash Unit De	elaware	40.00 Acres
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2. If more	re than one lease is de	dicated to the well, outline	each and identify the ownership thereo	of (both as to working interest	and royalty).
	re than one lease of di ation, force-pooling, e		ed to the well, have the interest of all	owners been consolidated by o	communitization,
	Yes		"yes" type of consolidation		
	r is "no" list the owne i if neccessary.	ers and tract descriptions wh	ich have actually been consolidated. (Use reverse side of	
		to the well until all interest	s have been consolidated (by commun	itization, unitization, forced-po	oling, or otherwise)
			been approved by the Division.		
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				Company Strata	Production Company
	1			Date	on 11 1002
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SUPPLEMENTAL INFORMATION TO

FORM 3160-3 APPLICATION AND PERMIT TO DRILL

NASH UNIT #13

Cementing Program:

- will be 3/8" casing set at 13 Surface Casing: approximately 300' and cemented with approximately 500 sacks of Halliburton Premium Plus cement with 2% CaCL, 5# Gilsonite and 1/4# Flocele per sack. The amount could be adjusted depending upon the fluid caliper results, however, sufficient quantities cement in to circulate will be utilized.
- will be set at 5/8" casing 8 Intermediate Casing: approximately 3000' and cemented with approximately 1200 sacks of HalcoLite (Halliburton Lite cement) with 10# salt and 1/4# Kwikseal per sack, and 200 sacks Premium Plus with 5# salt. The amount could be adjusted dependent upon fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.
- Production Casing: If appropriate, 5 1/2" casing will be set at Total Depth. Strata utilizes cement in sufficient quantities to bring the cement into the 8 5/8" intermediate casing. This is normally completed in two (2) stages. The first stage is normally 600 sacks 50/50 Poz with 5# salt and 1/4# Flocele per sack. The second stage normally consists of 500 sacks of 50/50 Poz with 5# salt and 1/4# Flocele per sack.

HOLE PROGNOSIS APPLICATION FOR PERMIT TO DRILL STRATA PRODUCTION COMPANY NASH FEDERAL UNIT #13 WELL 2315' FSL & 1746' FWL SECTION 12-T235-R29E

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In conjunction with form 3160-3, Application for Permit to Drill, Strata Production Company submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 & 2, and with all other applicable federal and state regulations.

- 1. The Geologic surface formation is of Permian Age.
- 2. Estimated tops of geologic markers are as follows:

Rustler	Surface	Lamar	3180'
Top of Salt	3501	Bone Spring	6990'
Base of Salt	2820'	T.D.	7200 <i>'</i>

3. The estimated depths at which water, oil or gas formations are expected to be encountered are:

*Water:	None - Located	near Salt Lake
**Oil or Gas:	Delaware 3180'	- 6990'

- * NOTE: Groundwater to be protected by 13 3/8" surface casing with cement circulated to the surface.
- **NOTE: Potentially productive horizons to be protected by 5 1/2" production casing with cement tied back to intermediate casing.
- 4. Casing Program: See Form 3160-3 attached hereto.
- 5. Pressure Control Equipment: See Exhibit "D", BOP diagram.
- 6. Mud Program:
 - 0' to 300' Native mud consisting of fresh water and native muds are used for drilling purposes.
 - 300' to 3000' Brine water purchased from commercial sources will be utilized.
 - 3000' to 4600' Brine and fresh water purchased from commercial sources will be utilized. Salt gel will be used to build viscosity.
 - 4600' to TD Brine and fresh water with salt gel and starch will be used to maintain a viscosity of approximately 31 and a water loss of 15 to 25.

HOLE PROGNOSIS NASH FEDERAL UNIT #13 Page 2

- 7. Auxiliary Equipment: None required.
- 8. Testing, Logging, and Coring Program:

Two (2) man Mudlogging unit from top of Delaware to TD DLL-MSFL, CNL-Density, Gamma Ray, Caliper.

Mudlogging unit will be employed from approximately 3180' (Top of Delaware) to 7200' (Total Depth). The Dual Laterolog will be run from TD back to the intermediate casing and the Compensated Neutron/Density Log will be run from TD back to surface. In some cases, Strata elects to run rotary sidewall cores from selected intervals from approximately 4200' to 7200' dependent upon logging results.

9. Abnormal Pressures, Temperature, or other Hazards:

Loss of circulation is possible in the Delaware section of the hole, however, no loss was seen in the recent drilling of the offsetting well.

Strata has drilled and completed one (1) well in the immediate area. To date, we have not encountered Hydrogen Sulfide. However, if Hydrogen Sulfide is encountered, a Hydrogen Sulfide alarm on the drilling rig would be activated. All personnel have had Hydrogen Sulfide training and appropriate breathing apparatus is located on site. If necessary, the well can be shut in utilizing the blow out preventer and other equipment to prevent the migration of Hydrogen Sulfide to the surface.

10. Anticipated starting date: December 23, 1992

Forecasted duration of operations:

Drilling: 20 days Completion: 15 days

SURFACE USE PLAN APPLICATION FOR PERMIT TO DRILL STRATA PRODUCTION COMPANY NASH FEDERAL UNIT #13 WELL 2315' FSL & 1746' FWL SECTION 12-T23S-R29E

Submitted with form 3160-3, Application For Permit to Drill, covering the above captioned well. The purpose of the plan is to describe the location, the proposed construction activities and operations plan, the surface disturbance involved, and the rehabilitation of the surface after completion of said well so that an appraisal can be made of the environment affected by this well.

- 1. Existing Roads:
 - A. Area Map Exhibit "A" is a map showing the existing and proposed roads to the proposed location. All roads shall be maintained in a condition equal to that which existed prior to the start of construction.
 - B. Directions: From Loving, New Mexico, the well is located approximately 9 miles to the east off State Highway 128.
- Planned access roads: Approximately 50' of new road will be built from the existing East/West Road, Northwest to the proposed location.
 - A. Exhibit "B" is a plat showing the wellsite layout.
 - B. Construction: Gradient on all roads will be less than 5%.
 - C. No turnouts will be necessary.
 - D. If needed, road across pad will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
 - E. No culverts are required.
 - F. No gates or cattle guards will be required.
- 3. Location of existing wells:
 - A. Water wells: None known.
 - B. Disposal wells: None known.
 - C. Oil and Gas wells: Location of existing wells within a two (2) mile radius of the location are shown on Exhibit "C", Land Status Map.
- 4. Location of Existing and/or Proposed Facilities:
 - A. If the well proves to be a producer, Strata Production Company will furnish maps or plats showing On Well pad facilities and Off Well pad facilities (if needed) on a Sundry Notice before construction of these facilities starts.

SURFACE USE PLAN NASH FEDERAL UNIT #13 Page 2

- 5. Location and type of water supply: Water purchased locally from private sources and trucked over the access roads will be utilized for drilling purposes.
- 6. Source of Construction Materials:
 - A. If needed, caliche for surfacing the road and location will be obtained from the nearest source.
- 7. Methods of Handling Waste Disposal:
 - A. Drill cuttings will be disposed of in the reserve pits.
 - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
 - C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
 - D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to BLM for approval.
 - E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - F. Oil produced during operations will be stored in tanks until sold.
 - G. Will set trash trailer for trash & debris.
 - H. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. Ancillary Facilities:
 - A. None required.
- 9. Wellsite Layout:
 - A. Exhibit "B" shows the dimension of the well pad and reserve pits.
- 10. Surface Restoration Plan:
 - A. After completion of drilling and/or completion operations all equipment and other materials not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.

SURFACE USE PLAN NASH FEDERAL UNIT #13 Page 3

> C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the BLM will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. Other information:

- A. The topography is of rolling terrain with vegetation of sagebrush and native grass.
- B. Soil: The soils are clayey sand over caliche base.
- C. Flora and Fauna: The vegetation cover consists of prairie grasses and flowers. Wildlife in the area probably includes those typical of semi-arid desert land.
- D. Ponds and Streams: None
- E. Residences and Other Structures: None
- F. Land Use: Grazing
- G. Surface Ownership: The proposed location and access road are on Federally owned surface.
- H. An archaeological study has been conducted for the location and new access road. The report has been submitted separately.
- 12. Operator's Representative:

RONNIE WILLIS P. O. BOX 1030 ROSWELL, NEW MEXICO 88202-1030 PHONE NUMBER: (505) 622-1127-OFFICE 626-7387-CELLULAR 622-5651-HOME

13. Certification:

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site which currently exists; that the statements made in the plan are to the best of my knowledge, true and correct; that the work associated with the operations proposed herein will be performed by Strata Production Company and its contractors/sub-contractors in conformity with the plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

STRATA PRODUCTION COMPANY arcia rol

CAROL J. GARCIA PRODUCTION SUPERVISOR

DATE: November 12, 1992

EXHIBIT "B"

STRATA PRODUCTION COMPANY

WELL PAD LAYOUT



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28	27	26	25	NASH UNIT #1 2315' FSL, 17	13
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EXHIBIT "D"

EQUIPMENT DESCRIPTION

All equipment should be at least 3,000 psi WP or higher unless otherwise specified.

- 1. Bell nipple
- 2. Hydril bag type preventer
- 3. Ram type pressure operated blowout preventer with blind rams.
- 4. Flanged spool with one 3"and one 2"(minimum) outlet.
- 5. 2"(minimum) flanged plug or gate valve.
- 6. 2"x 2"x 2"(minimum) flanged.
- 7. 3"gate valve.
- 8. Ram type pressure operated blowout preventer with pipe rams.
- 9. Flanged type casing head with one side outlet.
- 10. 2" threaded (or flanged) plug or gate valve. Flanged on 5000# WP, threaded on 3000# WP or less.
- 11. 3" flanged spacer spool.
- 12. 3"x 2"x 2"x 2" flanged cross.
- 13. 2" flanged plug or gate valve.
- 14. 2" flanged adjustable choke.
- 15. 2" threaded flange.
- 16. 2" XXH nipple.
- 17. 2" forged steel 90'Ell.
- 18. Cameron (or equal) threaded pressure gauge.
- 19. Threaded flange.
- 20. 2" flanged tee.
- 21. 2" flanged plug or gate valve.
- 22. 2 1/2" pipe, 300' to pit, anchored.
- 23. 2 1/2" SE valve.
- 24. 2 1/2" line to steel pit or separator.

NOTES:

- 1). Items 3,4 and 8 may be replaced with double ram type preventer with side outlets between the rams.
- 2). The two valves next tho the stack on the fill and kill line to be closed unless drill string is being pulled.
- 3). Kill line is for emergency use only. This connection shall not be used for filling.
- 4). Replacement pipe rams and blind rams shall be on location at all times.
- 5). Only type U, LSW and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
- 6). Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.



A pressive reducer and regulator must be provided for operating the Hydril proventer. "Then requested, a second pressure reducer shall be available to limit "perasing fluid pressures to ram proventen. Gulf Legion No. 38 hydroulic oil, an equivalent ar bettar, is to be used as the fluic to aperate the hydroulic equipment. The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions

The choice monifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchared. The choke flow line, relief line, and choke lines shall be constructed on straight as possible and without sharp bends. Easy and asfe access is to be maintained to the choke manifold. If decened necessary, walkways and stairways shall be exceted in and around the choke manifold. All volves are to be salected for operation in the presence of all, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped and the standard and the preventer must be equipped with stem extended to the derrick substructure. All other valves are to be equipped

* To include derrick floor mounted controls.

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POST OFFICE DRAWER 1030 ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88201

November 12, 1992

Mr. Morris Worley, Mine Manager Western Ag Minerals Corporation P. O. Box 511 Carlsbad, New Mexico 88220-0511

> Re: Application to Drill in Potash Area Nash Federal Unit #13 Section 12-235-29E Eddy County, New Mexico

Dear Mr. Worley:

In accordance with the State of New Mexico Oil Conservation Division Rule R-111-PC (2)(3), enclosed herewith please find the following for your review and further action:

- 1. Form 3160-3 Application For Permit To Drill.
- 2. Surface Location Plat of area.

State of New Mexico Public Land records reflect Western Ag Minerals Corporation as the potash lessee covering lands in this area. Strata Production Company, a New Mexico corporation, hereby advises you of its intention to drill a well to 7200' at a location 2315' FSL & 1746' FWL of Section 12, Township 23 South, Range 29 East.

If you agree that drilling at this location will not interfere with your potash operations, please sign and return one copy of this letter in the enclosed envelope within 20 days of receipt of this letter.

Should you have any questions or require additional information from this office, please advise.

Sincerely,

STRATA PRODUCTION COMPANY Carol J. Garcia Production Supervisor

AGREED TO AND ACCEPTED THIS ____ DAY OF NOVEMBER, 1992.

BY:

TITLE: _____ Enclosures

cc: Oil Conservation Division, Hobbs, NM Bureau of Land Management, Carlsbad, NM POST OFFICE DRAWER 1030 ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88201

November 12, 1992

Mr. Dan Morehouse, Mine Manager IMC Fertilizer, Inc. P. O. Box 71 Carlsbad, New Mexico 88220-0071

> Re: Application to Drill in Potash Area Nash Federal Unit #13 Section 12-235-29E Eddy County, New Mexico

Dear Mr. Morehouse:

In accordance with the State of New Mexico Oil Conservation Division Rule R-111-PC (2)(3), enclosed herewith please find the following for your review and further action:

- 1. Form 3160-3 Application For Permit To Drill.
- 2. Surface Location Plat of area.

State of New Mexico Public Land records reflect Western Ag Minerals Corporation as the potash lessee covering the captioned lands. Strata Production Company, a New Mexico corporation, hereby advises you of its intention to drill a well to 7200' at a location 2315' FSL & 1746' FWL of Section 12, Township 23 South, Range 29 East.

If you agree that drilling at this location will not interfere with your potash operations, please sign and return one copy of this letter in the enclosed envelope within 20 days of receipt of this letter.

Should you have any questions or require additional information from this office, please advise.

Sincerely,

STRATA PRODUCTION COMPANY Carol J. Garcia Production Supervisor

AGREED TO AND ACCEPTED THIS ____ DAY OF NOVEMBER, 1992.

BY:_

TITLE:

Enclosures

cc: Oil Conservation Division, Hobbs, NM Bureau of Land Management, Carlsbad, NM