DATE IN SUSPENSE ENGINEER LOGGED IN TYPE APP NO.	 a.					
	DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

мррис	INSL-Non-Stan [DHC-Down [PC-Pool [EOR-Qual	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication hole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] ified Enhanced Oil Recovery Certification] [PPR-Positive Production Response	n] 3]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD	
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC COLS OLM	
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD PIPI EOR PPR 30-031-2	DSPAH SWD 33 20124
	[D]	Other: Specify	ت و من اسم
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	A SAN
	[B]	X Offset Operators, Leaseholders or Surface Owner	NON 2011 3
	[C]	X Application is One Which Requires Published Legal Notice	
	[D]	X Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	$\begin{array}{c} \mathbf{v} & \mathbf{v} \\ \mathbf{v} & \mathbf{v} \\ \mathbf{u} & \mathbf{v} \\ \mathbf{v} \\ \mathbf{v} \end{array} \in \begin{array}{c} \mathbf{v} \\ \mathbf{v} \\ \mathbf{v} \\ \mathbf{v} \end{array}$
	[E]	X For all of the above, Proof of Notification or Publication is Attached, and/or,	
	[F]	Waivers are Attached	

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

BRIAN WOOD	Hard	CONSULTANT	10-31-11
Print or Type Name	Signature	Title	Date
		brian@permitswes	st.com

e-mail Address

,' STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

"*

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

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance XXX Disposal Storage Application qualifies for administrative approval? Yes No						
II.	OPERATOR:NACOGDOCHES OIL AND GAS, INC.						
	ADDRESS: P. O. BOX 632418, NACOGDOCHES, TX 75963						
	CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120						
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.						
IV.	Is this an expansion of an existing project? Yes XXX No If yes, give the Division order number authorizing the project:						
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.						
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.						
VII.	Attach data on the proposed operation, including: SOUTH HOSPAH SWD 33						
	 Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). 						
*VIII	. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.						
IX.	Describe the proposed stimulation program, if any.						
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).						
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.						
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.						
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.						
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.						
	NAME: BRIAN WOOD						
	SIGNATURE: DATE: OCTOBER 31, 2011						
	E-MAIL ADDRESS brian@permitswest.com						

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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INJECTION WELL DATA SHEET

Side 1



(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" J-55 4.7# Lining Material:

Type of Packer: BAKER TENSION PACKER

Packer Setting Depth: 3,794' (18' ABOVE TOP OF OPEN HOLE)

Other Type of Tubing/Casing Seal (if applicable):

Additional Data

1. Is this a new well drilled for injection? (DISPOSAL) Yes XXX No

If no, for what purpose was the well originally drilled?

OIL WELL (HOSPAH SOUTH LOWER SAND)

2. Name of the Injection Formation: SWD; ENTRADA

- 3. Name of Field or Pool (if applicable): <u>SWD; ENTRADA</u> (POOL CODE 96436)
- 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

OPEN HOLE 1,647' - 1,660'; WILL RUN LINER ACROSS INTERVAL & CEMENT TO SURFACE

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

OVER: UPPER HOSPAH (1,590'), LOWER HOSPAH (1,648'), DAKOTA (2,507')

UNDER: NONE WITHIN DOZENS OF MILES

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I. Purpose is water disposal into the Entrada zone.

 II. Operator: Nacogdoches Oil and Gas, Inc. Operator phone number: (936) 560-4747 Operator address: P. O. Drawer 632418 Nacogdoches, TX 75963 Contact: Brian Wood (Permits West, Inc.) Phone: (505) 466-8120

III. A. (1) Lease: BLM lease NMNM-012335 (excludes Upper Hospah Sand) Lease Size: 344.08 acres (see Exhibit A) Lease Area: NW4, W2NE4, & Lots 1-4; T. 17 N., R. 9 W. Closest Lease Line: 1,300' Well Name & Number: South Hospah SWD 33* (API 30-031-20124) *The well is currently South Hospah Unit 33, a shut-in Hospah Lower Sand, South water injection well. Unit has been terminated. Location: 1340' FNL and 1710' FWL Sec. 12, T. 17 N., R. 9 W. (Form C-102, Exhibit B)

A. (2) Surface casing (10-3/4", 32.75#) was set in 1969 at 61' in a 13-3/4" hole. Surface casing was cemented with 70 sacks of an unknown type of cement. Sundry Notice dated 9-12-69 indicates cement circulated to the surface.

Well was drilled to a TD of 1,660'. Production casing (7", 20#) was set at 1,647' in a 9-7/8" hole. Cemented with 125 sacks (type cement unknown) to a calculated top of \approx 1,250' based on 50% excess. Well was completed as an open hole in the South Hospah Lower Sand from 1,647' to 1,660'.

Plan to deepen the well and drill a 6-1/4" hole to 3,900' and then run a cement bond log prior to (and after) running the liner. Will run a 4-1/2", 10.5#, J-55 liner and set it at 3,812' (open hole completion). Will set a Type A open hole packer shoe in a hard

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limestone cap that is just above the Entrada top (3,812'). Cement with 277 sacks (25% excess) premium light + 1% calcium chloride from 3,812' to 1,647'. Cement with 192 sacks premium light + 1% calcium chloride from 1,647' to surface.

- A. (3) Tubing will be 2-3/8", J-55, 4.7#. It will be set at \approx 3,791' (within 50', less the packer) which will be 21' above the top of the open hole.
- A. (4) A Baker Tension packer will be set at ≈3,794' (which will be 18' above the top of the open hole).
- **B.** (1) Disposal zone will be the Entrada sandstone (pool code 96436).
- **B.** (2) Disposal interval will be 3,812' to 3,900' (open hole).
- B. (3) Well was drilled by Tenneco in 1969 to 1,660'. It was completed as an open hole (1647' - 1660') Hospah Lower Sand, South oil well (pool code 33070). Well history is:

September 7, 1969 by Tenneco

spud well and drill to 64' set 2 joints 10-3/4" 32.75 casing in 13-3/4" hole at 61' cemented with 70 sacks and circulated to surface

> September 10, 1969 by Tenneco reach TD at 1,660' set 7" 20# casing in 9-7/8" hole at 1,647' cement with 125 sacks

September 12, 1969 by Tenneco ran 51 joints 2-7/8" EUE 6.5# tubing landed at 1,640' ran 2-1/4" pump on 65 of 3/4" x 25' sucker rods

September 7, 1972 by Tenneco receive approval (Case 4793, Order R-4389) from OCD for water injection





<u>September 25, 1972 by Tenneco</u> Pull rods, tubing, & pump Set AD-1 tension packer at 1,596' run 50 joints 2-7/8" 6.4# J-55 internally plastic coated tubing

October 4, 1972 by Tenneco start injection at 140 Mcfd and 720 bwpd at 800 psi

<u>November 1, 1987</u> Citation Oil & Gas Corp. succeeds Tenneco as operator

May 17 - 31, 1991 by Citation leak found from 160' to 515' squeezed with 180 sacks Class B and circulated to surface set packer at 1,592' and pressure test to 100 psi.

September 6, 1994 BC & D Operating, Inc. succeeds Citation as operator

> December 11, 2004 by BC & D Bradenhead test tubing to 190 psi

December 1, 2005 Mountain States Petroleum Corp. succeeds BC & D as operator

<u>August 31, 2007</u> Nacogdoches succeeds Mountain Sates as operator

Well will be for Nacogdoches' exclusive use and for the sole purpose of water disposal from present and future Nacogdoches wells.

- B. (4) Well bore has not been perforated. It is currently open hole from 1,647' to 1,660'. This interval will be covered with a cemented liner from the surface to 3,812'.
- **B. (5)** Top of the Entrada is at 3,812'. Bottom of the Entrada is at >3,900'. Proposed disposal interval will 3,812' 3,900'



PAGE 4

NACOGDOCHES OIL AND GAS, INC. SOUTH HOSPAH SWD 33 1340' FNL & 1710' FWL SEC. 12, T. 17 N., R. 9 W. McKINLEY COUNTY, NM

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Bottom of the closest oil or gas zone (Dakota) is at $\approx 2,739$ '. There will be a $\approx 1,073$ ' interval between the bottom of the Dakota and the top of the Entrada. Closest (686' northeast) historic Dakota producer is Nacogdoches' South Hospah 10 (30-031-60017). It has since been plugged back and it is now a Hospah Lower Sand, South oil well. Closest current Dakota producer is Nacogdoches' Whigham 3 (30-031-2-129) which is 2,272' southwest.

There is no underlying producing zone. Oil is being produced elsewhere in the San Juan Basin from the Entrada. However, closest historic Entrada production is in the now plugged and abandoned Snake Eyes Field which is ≈ 21 miles north (20-21n-8w).

IV. This is not an expansion of an existing injection project. There is a water flood in the Hospah Field. However, all producing wells benefitting from that water flood are Hospah oil wells. This will be purely an Entrada disposal well.

V. A map (Exhibit C) showing the 59 existing wells within the half mile radius area of review is attached. (An 60th well is 11' beyond the 1/2 mile radius and is also included.) Only one of the wells penetrated the Entrada. That well is Nacogdoches' South Hospah 9 (30-031-20013). It is an Entrada SWD and is 2,103' northeast. All of the remaining wells were Mancos, Hospah Dakota, Hospah Upper Sand, South (HUSS), or Hospah Lower Sand, South (HLSS), or Hospah Lower and Upper Sands South (HLUSS). A tabulation of the wells within the half mile radius follows.

<u>OPERATOR</u>	<u>WELL</u>	<u>API 30-031-</u>	<u>T. 17 N., R. 9 W.</u>	ZONE	<u>STATUS</u>	TD	DISTANCE
Nacogdoches	S. Hospah 37X	20135	NWNW Sec. 12	HLSS	WO	1666'	434'
Citation	Hospah 34	20123	SENW Sec. 12	HLSS	P & A	1661'	480'
Nacogdoches	S. Hospah 14	20053	SWNW Sec. 12	HLSS	WO	1758'	516'
Nacogdoches	S. Hospah 47	20361	NENW Sec. 12	HLSS	WO	1780'	558'
Nacogdoches	S. Hospah 52	20243	NENW Sec. 12	HUSS	WIW	1622'	635'

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OPERATOR	WELL	<u>API 30-031-</u>	<u>T. 17 N., R. 9 W.</u>	<u>ZONE</u>	<u>STATUS</u>	TD	DISTANCE
Nacogdoches	S. Hospah 11	20016	SENW Sec. 12	HLSS	OW	1774'	675'
Nacogdoches	S. Hospah 10	60017	NENW Sec. 12	HLSS	OW	2827'	686'
Nacogdoches	S. Hospah 4	05145	NENW Sec. 12	HUSS	OW	1640'	694'
Nacogdoches	S. Hospah 16	20056	SENW Sec. 12	HUSS	OW	1710'	746'
Nacogdoches	S. Hospah 13	20054	SENW Sec. 12	HLUSS	OW	1720'	944'
Nacogdoches	S. Hospah 32	20125	NENW Sec. 12	HLUSS	OW	1647'	1029'
Nacogdoches	S. Hospah 46	20360	SWNW Sec. 12	HLSS	OW	1696'	1072'
Nacogdoches	S. Hospah 12	20020	SWNW Sec. 12	HLSS	WO	1840'	1091'
Nacogdoches	S. Hospah 48	20362	SWNE Sec. 12	HUSS	OW	1635'	1091'
Citation	S. Hospah 65	20614	SWNE Sec. 12	HUSS	P & A	1715'	1134'
Nacogdoches	S. Hospah 2	05139	SENW Sec. 12	HUSS	WO	1637'	1140'
Tenneco	Core Hole 1	20776	SWNE Sec. 12	HLSS	P & A	1719'	1167'
Nacogdoches	S. Hospah 51	20242	SWNW Sec. 12	HUSS	WIW	1662'	1173'
Tenneco	Hospah 67	20616	SWNW Sec. 12	HUSS	P & A	1715'	1198'
Tenneco	Core Hole 2	20777	SWNE Sec. 12	HLSS	P & A	1742'	1220'
Nacogdoches	S. Hospah 5	05146	NWNE Sec. 12	HUSS	WIW	1645'	1236'
Citation	Hospah 66	20615	SWNE Sec. 12	HUSS	P & A	1715'	1271'
Nacogdoches	S. Hospah 36	20118	NWNE Sec. 12	HLSS	WIW	1635'	1341'
BC & D	S. Hospah 18	20058	SWNE Sec. 12	HUSS	WIW	1750'	1355'
Nacogdoches	S. Hospah 61	20546	NWNE Sec. 12	HLSS	WO	1715'	1405'
Nacogdoches	S. Hospah 31	20122	NWNE Sec. 12	HLSS	WO	1651'	1490'
Nacogdoches	S. Hospah 17	20057	SWNE Sec. 12	HUSS	WIW	1787'	1585'
Nacogdoches	S. Hospah 24	20091	NWNE Sec. 12	HLSS	OW	1,711'	1602'
Petroleum	Santa Fe 46	05155	SESW Sec. 1	HLSS	P & A	1642'	1671'
Nacogdoches	Santa Fe 84	20372	SWSE Sec. 1	H∟SS	WIW	1656'	1674'
Nacogdoches	S. Hospah 59	20410	SWNE Sec. 12	HLUSS	WIW	1657'	1725'
Nacogdoches	S. Hospah 21	05134	NESW Sec. 12	HUSS	WO	1647'	1733'
Nacogdoches	S. Hospah 15	20055	SWNW Sec. 12	HUSS	WO	1790'	1802'
Nacogdoches	S. Hospah 49	20363	NWNE Sec. 12	HLSS	OW	1639'	1839'
Nacogdoches	S. Hospah 57	20408	SWNW Sec. 12	HLSS	WIW	1746'	1860'
Nacogdoches	S. Hospah 22	05498	NWSW Sec. 12	HUSS	OW	1734'	1867'

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OPERATOR	WELL	API 30-031-	<u>T. 17 N., R. 9 W.</u>	ZONE	<u>STATUS</u>	TD	DISTANCE
Nacogdoches	S. Hospah 8	20015	SWNE Sec. 12	HLSS	OW	1709'	1876'
Nacogdoches	S. Hospah 1	05142	SWNE Sec. 12	HUSS	WO	1565'	1953'
Nacogdoches	S. Hospah 30	20121	NWNE Sec. 12	HLUSS	WO	1622'	1958'
Whigham	CTV Hospah 1	05143	SWNE Sec. 12	Mancos	Р&А	688'	1961'
BC&D	S. Hospah 19	05137	NWSE Sec. 12	HUSS	P & A	1638'	2012'
Nacogdoches	S. Hospah 9	20013	NWNE Sec. 12	Entrada	SWD	6945'	2103'
CTV	Whigham 2	05596	SENE Sec. 11	Gallup	P & A	1960'	2138'
Nacogdoches	Santa Fe 89	20422	SWSE Sec. 1	HLSS	WO	1769'	2211'
Nacogdoches	S. Hospah 29	20120	NWNE Sec. 12	HLSS	WO	1625'	2228'
Nacogdoches	S. Hospah 62	20545	NWNE Sec. 12	HLSS	WO	1710'	2236'
Nacogdoches	Whigham 3	20129	SESE Sec. 11	Hospah Dakota	WO	2885'	2272'
Citation	S. Hospah 23	20024	NESW Sec. 12	Hospah Dakota	OW	2968'	2285'
Nacogdoches	Santa Fe 79	20099	SWSE Sec. 1	HLSS	WO	1665'	2311'
Citation	S. hospah 55	20299	SENE Sec. 12	HUSS	P & A	1583'	2390'
Nacogdoches	S. Hospah 28	20095	NENE Sec. 12	HUSS	OW	1675'	2448'
Citation	S. Hospah 40	20161	SENE Sec. 12	HUSS	OW	1637'	2504'
Nacogdoches	Santa Fe 73	20019	SWSE Sec. 1	HLSS	WO	1665	2528'
Nacogdoches	S. Hospah 3	05140	SENE Sec. 12	HLSS	OW	1603'	2530'
Nacogdoches	S. Hospah 25	20092	NENE Sec. 12	HLSS	OW	1702'	2596'
Citation	S. Hospah 43	05655	NESE Sec. 11	HUSS	P & A	1753'	2611'
Citation	S. Hospah 41	20154	NENE Sec. 12	HLSS	Р&А	1637'	2612'
Nacogdoches	Santa Fe 81	20134	SWSE Sec. 1	HLSS	WO	1655'	2617'
Citation	S. Hospah 56	20300	NENE Sec. 12	HUSS	P & A	1602'	2636'
Nacogdoches	S. Hospah 63	20544	NENE Sec. 12	HLSS	WIW	1695'	2651'

A map (Exhibit D) showing all 304 wells (139 producing oil wells + 29 water injection or disposal wells + 133 P & A wells + 3 water supply wells) within a two mile radius is attached.



Exhibit E shows all leases within a half mile radius. Details are:

<u>T. 17 N., R. 9 W.</u>	LESSOR	<u>LEASE</u>	LEASEHOLD OPERATOR
all Section 1	fee	fee	Nacogdoches
all Section 2	BLM	unleased	N/A
all Section 11	fee	fee	Nacogdoches
Lots 1-4, W2NE4, NW4 Sec. 12	BLM	NMNM-012335*	Nacogdoches
Lots 1-4, W2NE4, NW4 Sec. 12	BLM	NMNM-081208**	Nacogdoches
Lots 5 & 6, NWSE, & SW4 Sec. 12	BLM	NMNM-125263	Nacogdoches

*Entrada and all other zones excluding Upper Hospah sand **Upper Hospah sand only

A map (Exhibit F) showing all lessors within a two mile radius is attached. Lessors are BLM, fee, Navajo allotted (FIMO), or State (NMSLO).

VI. Only one well within a 1/2 mile radius penetrated the proposed disposal zone. It (South Hospah 9) is an Entrada salt water disposal well that is 2,103' northeast. See Exhibit G for its history, location, and construction.

- VII. 1. Average injection rate will be \approx 5,000 bwpd. Maximum injection rate will be \approx 7,500 bwpd.
 - 2. System will be closed. All needed infrastructure is in place. No additional facilities will be needed.
 - 3. Average injection pressure will be ≈750 psi Initial maximum injection pressure will be ≈762 psi (≤0.2 psi x 3812' depth at top of open hole = 762.4 psi) Nacogdoches will conduct a step rate test to raise the maximum if justified by test results and approved by government agencies.
 - 4. Water source will be existing and future Nacogdoches wells in the San Juan Basin. Nacogdoches has >100 existing wells in the basin. Analyses of Entrada water from the South Hospah 9 (receiving or target water) and Hospah sand (produced or source water to be disposed) are attached (Exhibit H). An April 19, 1967 Sundry Notice



stated that Tenneco "rec salt wtr" from the Entrada in the South Hospah 9. A summary follows.

<u>Parameter</u>	<u>Entrada run 1</u>	<u>Entrada run 2</u>	Hospah sand	<u>SDWA*</u>
рН	7.65	7.63	8.97	6.5 - 8.5
resistivity	3.2	3.0		
specific gravity	1.011	1.011	1.001	
	(all mg/l)	(all mg/l)	(all mg/l)	(all mg/l)
barium	0	0	0	1.0
bicarbonate	85	98	720	
calcium	441	441	14	
carbonate	<1	<1		
chloride	400	600	410	250
hydroxide	0	0		
iron	0	0	8.25	0.3
magnesium	<0.5	<0.5	18.23	
potassium	3	5		
sodium	691	680	738	
sulfate	1900	1600	525	250
total dissolved solids	3517	3419	2434	500
total hardness CaCO3	1102	1102	110	

* Safe Drinking Water Act

5. The Entrada has not been found to be productive within two miles of the well. No oil or gas has been found in the 13 Entrada wells (Exhibit I) which have been drilled in Townships 16, 17, and 18 North and Ranges 8, 9, and 10 West.

Closest current Entrada production is the Eagle Springs 8 Federal 1H (30-043-20949). It >28 miles east-northeast in 8-19n-4w in the Arena Blanca Entrada, Southeast Pool.

In general, Entrada water near recharge zones (basin fringe) has a specific conductance of <1,500 μ mhos. Entrada water from deeper parts of the basin has a specific conductance of >10,000 μ mhos. Stone et al in <u>Hydrogeology and water resources of San Juan</u> <u>Basin, New Mexico</u> wrote, "Generally, however, water from the Entrada is not suitable for drinking, especially in deeper parts of the basin." Closest water disposal well in the Entrada is Nacogdoches'

PERMITS WEST, INC.

PAGE 9

NACOGDOCHES OIL AND GAS, INC. SOUTH HOSPAH SWD 33 1340' FNL & 1710' FWL SEC. 12, T. 17 N., R. 9 W. McKINLEY COUNTY, NM

South Hospah 9. It is 2,103' northeast in the NWNE Section 12. A total of 264,582 barrels were injected from June, 2010 through July, 2011.

VIII. The Entrada sandstone is a very porous and permeable æolian sandstone. It produces or produced oil elsewhere in the basin (Eagle Mesa, Leggs, Media, Ojo Encino, Papers Wash, Snake Eyes Fields). None of the 13 Entrada tests in T. 17 N., R. 8 W. and the eight surrounding townships have found oil or gas.

Formation tops in this well are:

Menefee Shale: 0' Point Lookout Sandstone: 290' Mancos Shale: 550' Upper Hospah Sandstone: 1590' Lower Hospah Sandstone: 1648' Dakota Sandstone: 2507' Morrison Formation: 2740' Todilto Limestone: 3750' Entrada Sandstone: 3812' Total Depth: 3900'

There is one water well (Exhibit J) within a one mile radius. The Sanders water well is 4,241' northwest. It is 585' deep and the likely aquifer is the Point Lookout. (Note that the State Engineer's point of diversion web site has the incorrect location. The correct location is shown on the well completion report. The distance above is based on the completion report.)

Next closest (7,384' northeast) water well is Nacogdoches' water supply well. It has a total depth of \approx 2,700'. It is not used for drinking water. Analyses from both wells are attached in Exhibit J.

No existing underground drinking water source is below the Entrada within a mile. There will be 3,227' of vertical separation between the bottom (585') of the only water well within a mile and the top of the Entrada (3,812').



PAGE 10

NACOGDOCHES OIL AND GAS, INC. SOUTH HOSPAH SWD 33 1340' FNL & 1710' FWL SEC. 12, T. 17 N., R. 9 W. McKINLEY COUNTY, NM

IX. The well will be stimulated with 15% HCl.

X. A Schlumberger compensated formation density log is on file with OCD. A cement bond log will be run before and after Nacogdoches runs its liner.

XI. There is one water well within a one mile radius. It is 4,241' northwest and is 585' deep. An analysis from it is attached as Exhibit J.

XII. Nacogdoches is not aware of any geologic or engineering data which may indicate the Entrada is in hydrologic connection with any underground sources of water. There will be 3,227' of vertical separation between the top (3,812') of the Entrada and the bottom (585') of the only water well within a mile. This interval includes at least one shale zone (Mancos).

XIII. Notice (this application) will be sent (Exhibit K) to the surface owner (BLM), operators of all wells (only Nacogdoches), and all Entrada lease interest owners within a half mile. Legal ad (Exhibit L) was published on September 10, 2011.

		LESSEE UK
<u>LESSOR</u>	LEASE	OPERATING RIGHT
fee	fee	Nacogdoches
BLM	unleased	N/A
fee	fee	Nacogdoches
BLM	NMNM-012335	Nacogdoches, BC&D, R&R
BLM	NMNM-125263	Nacogdoches, R&R
	LESSOR fee BLM fee BLM BLM	LESSORLEASEfeefeeBLMunleasedfeefeeBLMNMNM-012335BLMNMNM-125263





NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

**

Oreman	All distances must be from	the outer boundaries of th	e Section	
TELLECO OIL COM	IPALY	eose HOS Dr. 1		We No
Unit Letter Le tion	7.W1%1.	Honge Cou		33
F 12 A two Fourtige Landton of Wel 1340 that form the	17 North	9 West M	cKinley	• .
Creative E. France F	ab Lower Soud		De	ine Critec Averenge
i o i	an wower saud	Hospah South (Lower Sand)	40 A ret
 Outline the acerage dedicate 	a to the subject well by colo	real serci ar hochuid m	orks on the plat below	,
 If more than one lease is ce interest and royalty. 	apodes to the well, out th	e each and laentify if	ie Lwhershy, theregt	both on to working
 If more than one lease of it as contraction, or fizition 	fferent ownershy is derivat force- woing letc?	ret to the well have th	ne interests of all awr	ers been consolitiated
Yes the H	or-wer is weld type of ro	ntolidation		
If answer is indiffust the owner henessary	s and tract bescriptions wh	ch have actually cons	o datec i Uke reverse	side of this form if
No climatication of a constant	the set of second to be			
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		/ KLUP		
				FICATION
		AUG 28 19	105 I hereby certify t	hat the information contained
		CON C	OM, horein is true and	complete to the best of my
			Knowledge and belief.	
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		-+	J. U	Tim
0%			G. A. F	ord
-/3			Fire 1	
× 1710'			C= Deciderate	
		1	SI. Product:	Lon Glerk.
		· +	Tenneco	011 Company
		l .	8,	26/69
	OF NEW A	N	I hereby certify th this plat was plotted surveys made by me that the same is true	at the well location shown an From field notes of actual or under my supervision, and and correct to the best of my
	HI ERNST		knowledge and belief,	
	NO: 2403	la k	31 July 196	59
+-+-	GISTER		100	HQ +
	AND SURVE	· ·	Martin Line	U Ching
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	····· ································		Robert II. 1	Irnst
			et1 10111.CC	Lu U PD 7463
			er a con he	

EXHIBIT B









South Hospah SWD 9 API 30-031-20013 330 FNL & 2051 FEL 12-17n-9w spud: 4-3-67 converted: 6-9-10



4.5" 10.5# liner set @ 3748' & cemented to surface with 307 sx with 58 bbl displacement

TD = 3945'







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BJ SERVICES Farmington District Lab Water Analysis Report

		Test # #9
Customer/Well Company: Well Name: Location: State: Formation: Depth:	ANGELINA WELL SOUTH HOSPAH#9 00-000-00000 San Juan County, NM ENTRADA SAND ZONE 0	Date:5/14/09Prepared for:ALLEN EAKERSubmitted by:ALLEN EAKERPrepared by:RON VALDEZWater Type:PRODUCED
Background In	formation	
Reason for Tes Completion ty Well History: Comments:	sting: routine be: RUN #1	
Sample Charac	cteristics	
Sample Temp: pH: Specific Gravit S.G. (Corrected Resistivity (Me	63 (°F) 7.63 y: 1.010 d): 1.011 @ 60 °F as.): 3.00 Ω-m	Viscosity:1cPColor:GREYOdor:HYDROCARBONTurbidity:NONEFiltrates:SLIGHT
Sample Comp	osition	
CATIONS	Sodium (calc.) Calcium Magnesium Barium Potassium	mg/l me/l ppm 680 29.6 673 441 22.0 437 < .5 0 0.0 0 5 0.1 5
ANIONS	Chloride Sulfate Hydroxide Carbonate Bicarbonate	600 16.9 594 1600 33.3 1584 0 0.0 0 <1 98 1.6 97
SUMMARY	Total Dissolved Solids(calc.) Total Hardness as CaCO3	3419 3385 1102 22.0 1091
Scaling Tender	ncies	
CaCO3 Factor CaSO4 Factor	43051.36 705760	Calcium Carbonate Scale Probability> REMOTE Calcium Sulfate Scale Probability> REMOTE
Na & K Ca Mg		Stiff Plot 01 02 03 04 ~. HCO3 SO4
		EXHIBIT H



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BJ SERVICES Farmington District Lab Water Analysis Report

Quete we w/Mall				-			Test #	#9
Company: Well Name: Location: State: Formation: Depth:	ANGELINA SOUTH HOS 00-000-0000 San Juan Co ENTRADA S 0	WELL SPAH#9 00 Dunty, NM GAND ZO	l NE		Date: Prepa Subn Prepa Wate	ared for: nitted by: ared by: r Type:	5/14/09 ALLEN EAK ALLEN EAK RON VALDE PRODUCEE	ZER ZER EZ D
Background In	formation							
Reason for Tes Completion typ Well History: Comments:	iting: be:	routine				· · · · · · · · · · · · · · · · · · ·		
Sample Charac	teristics							
Sample Temp: pH: Specific Gravit S.G. (Corrected Resistivity (Me	y: d): as.):	7. 1.0 1.0 3 .	63 (°F) 65 10 11 @ 60 ° 20 Ω-m	F	Visco Color Odor Turbi Filtra	osity: r: : dity: tes:	1cP GREY HYDROCAF NONE SLIGHT	RBON
Sample Compo	osition							
CATIONS	Sodium (calo Calcium Magnesium Barium Potassium Iron Chloride Sulfate Hydroxide Carbonate	D.)			mg/l 691 441 < .5 0 3 0.00 400 1900 0 < 1	me/l 30.0 22.0 0.0 0.1 0.0 11.3 39.6 0.0	ppm) 684) 437) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
SUMMARY	Bicarbonate Total Dissolv Total Hardne	ed Solids ss as Ca	s(calc.) CO3		85 3517 1102	1.4 22.0	4 85 3482) 1091	
Scaling Tender	ncies							
CaCO3 Factor CaSO4 Factor		37669. 8380	94 90	Calciu Calciu	ım Carbor m Sulfate	nate Scale P Scale Prob	Probability> ability>	REMOTE REMOTE
Na & K Ca Mg		2 0	1 00	Stiff F) 0 + + + + +	Plot 1 0	2 03	04	05 ~: HCO3 504
								EXHIBIT H

Water Analysis Results

Log # Sample ID	#080406 Hospab Prod Water			
Client	J. Environmental Services	Sampled:		Te
Address		Depth:		•
	. ·	BHT:	• •	

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Sept. 5, 2008 JUR sted: By:

XHIBIT

	mg/L			mg/L	meq/L	MI	LIEQU	IVALENTS	
CO2 (dissolved)	100		Barium (Ba) 0.00 0.00		Cations		Anions		
O2 (dissolved)	ND		Calcium (Ca)	14.00	0.70	Ca	0.70	НСО3	11.80
H2S	69,75		Iron (Fe)	8.25	0.29	Mg	1,50	SO 4	10.93
Suspended			Magnesium (Mg)	18,23	1,50	Na	32.10	Cl	11.57
Solids (TSS)	8 4		Sodium (Na)-calc.	738.05	32,10	Ba	0.00		•
Total Dissolved			Strontium (Sr)	nd	nd	Seture	tion Velu	es Dist. Water 20)C
Solids (TDS)	2434		Bioarbonate(HCO3)	720.00	11 80	CaCO3		13 mg/L	
рH	8.97		Chloride (Cl)	410.00	11.57	CaSO4 2	2H20	2090 mg/L	
Sp. Gravity	1.0010		Sulfate (SO4)	525.00	10.93	BaSO4		2.4 mg/i.	
Oil in Water	ND					The scaling	indices	indicate the	
Probable Mine	ral Composition		Alkalinity (CaCO3)			tendency fo	ir the sa	mpled water t	o ferm
Compound	meq/L	mg/L	Phenolphthalein 0.01			seale. The formation of CaCO3 is likely			
BaSO4	0.00	0.00	Methyl Orange 720.00			if the indes	ls posit	ive. The form	ลฉอก
Ca(HCO3)2	0,70	56.61	Hardness (CaCO3)	of CaSO4 i	s likely i	f the Sat. Con	C.		
CaSO4	0.00	0.00	Total 110			is less than	that of	the probable	
CaCl2	0.00	0.00	Calcium 35			mineral co	apositio	n for CaSO4.	
Mg(HCO3)2	1.50	109.74	Calcium Carbona	te Scaling In	dex	Calciu	m Sulfa	te Scaling I	ndex
MgSO4	0.00	0.00	Temperature (F) Scaling Index		Temperati	ve (F)	Sat. Conc. (1	ng/L)	
MgClZ	0.00	0.00	70 Negative		70		#N/A	•	
NaHCO3	9.60	806.61	90 Negative		90		#N/A		
Na2SO4	10.93	776.69	110 Negative		110)	#N/A		
NaCl	11.57	676.15	140 Negative		re	140)	#N/A	ŀ
			180	Negativ	re	180)	#N/A	

Laboratory testing performed by MicroBac International, Inc.

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512-310-8800 918-499-1534

Micro-Bac J-Environmental Services 01:54P Sep 10 08 04:47p Sep 09 08 0





Log # #080407 Sample ID Hospah Fresh Water			· · · ·		•				
Client Address	J. Envirunmental Services		Sampled: Tes Depth: BH'1';		ted: Sept. 5, 2008 By: JUR				
	mg/L			mg/L	meq/L	M	ILLIEQU	IVALENTS	
CO2 (dissolved)	66		Barium (Ba)	0,00	0.00	Cations	i	Anions	
O2 (dissolved)	ND		Calcium (Ca)	8.00	0.40	Ca	0.40	HCO3	7.57
H2S	0.085		Iron (Fe)	0.00	0.00	Mg	0.30	SO4	15.62
Suspended			Magnesium (Mg)	3.65	0.30	Na	23.48	• C t	0,99
Solids (TSS)	8		Sodium (Na)-calc.	539.84	23.48	Ba	0.00	L	
Total Dissolved			Strontium (Sr)	nd	nd	Satur	ation Valu	es Dist. Water 2	0 C
Solids (TDS)	1798	<u> </u>	Bicarbonate(HCO3)	462.00	7.57	CaCO3		13 mg/L	
pН	8,53		Chloride (Cl)	35.00	0.99	CaSO4	2H20	2090 mg/L	
Sp. Gravity	1.0000		Sulfate (SO4) 750,00 1			BaSO4		2.4 mg/L	
Oil in Water	ND					The scalin	rg indices	indicate the	
Probable Miner	al Composition		Alkalinity (CaCO3)			tendency	for the sa	mpled water	to form
Compound	meq/L	mg/L	. Phenolphthalein	0.01		scale. The	formatio	n of CaCO3 i	s likely
BaSO4	0.00	0.00	Methyl Orange	462.00		if the inde	a is posit	ive. The form	nation
Ca(HCO3)2	0.40	32.35	Hardness (CaCO3)			of CaSO4	is likely	f the Sat. Cos	ic.
CaSO4	0.00	0.00	Total 35			is less that	n that of	the probable	
CaCl2	0.00	0.00	Calcium	20		mmeral c	ompositie	m for CaSD4.	8007000
Mg(HCO3)2	0.30	21.95	Calcium Carbonat	e Scaling In	idex	Calci	um Sulfa	ate Scaling I	Index
MgSO4	0.00	0.00	Temperature (F) Scaling Index		. Tempera	ture (F)	Sat. Conc.	(mg/L)	
MgCl2	0.00	0.00	70 Negative		7	0	#N//	Ą.	
NaHCO3	6.87	577.33	90 Negative		9	o .	#N//	Ą .	
Na2SO4	15.62	1109.56	110 Negative		11	0	#N//	4	
NaCl	0.99	57.72	140	Negativ	/c	14	0	. #N//	A.
			180	Negativ	/e	· 18	0	#N//	4

918-499-1534 512-310-8800

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Micro-Bac J-Environmental Services Sep 09 08 01:54p

Sep 10 08 04:47p

EXHIBIT **{** c

Laboratory tasting performed by MicroBac International, Inc.

Sanders well

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Hall Envir	ronmental Analy	vsis Labora	tory, In	c. {water su	oches' Ipply well	Date: 05-Oct-11 Analytical Report	
CLIENT:	Permits West			Client Sample II): Hospah W	VSW	
Lab Order:	1109B70			Collection Date	e: 9/27/2011	11:40:00 AM	
Project:	Hospah			Date Received	1: 9/29/2011	l	
Lab ID:	1109B70-01	1 Matrix: AQUEOUS					
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	
OIL AND GRE	ASE					Analyst: JB	
Oil & Grease, 1	Total Recoverable	640	100	mg/L	100	10/4/2011	
SM2540C MOI	: TOTAL DISSOLVED	SOLIDS				Analyst: KS	
Total Dissolved	654	20.0	mg/L	1	10/4/2011 7:03:00 PM		



Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits



October 31, 2011

BLM 1235 LaPlata Highway Farmington, NM 87401

Nacogdoches Oil and Gas, Inc. is applying (see attached application) to convert its South Hospah 33 oil well to a salt water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name:South Hospah SWD 33Total Depth: 3,900'Proposed Disposal Zone:Entrada (from 3,812' to 3,900')Location:1340' FNL & 1710' FWL Sec. 12, T. 17 N., R. 9 W.,
McKinley County, NM on BLM lease NMNM-012335Approximate Location:≈40 air miles north of Grants, NMApplicant Name:Nacogdoches Oil and Gas, Inc. (936) 560-4747Applicant's Address:P. O. Drawer 632418, Nacogdoches, TX 75963

<u>Submittal Information:</u> Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

	U.S. Postal Service TM CERTIFIED MAIL TM RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)
	Postage
ככבי	Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee
	Total Postage & Fees \$ 6,63
	Street, Apt. No.; or PO Box No. City, State, ZIP+4
THE REAL PROPERTY OF	RSTFORM SEDO VAUGUSTE2005

Sincerely,

Brian Wood





October 31, 2011

BC&D Oil & Gas Corp. P. O. Box 302 Hobbs, NM 88241-0302

Nacogdoches Oil and Gas, Inc. is applying (see attached application) to convert its South Hospah 33 oil well to a salt water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

U.S. Postal Service CERTIFIED MAIL RECEIPT 무막도미 (Domestic Mail Only; No Insurance Coverage Provided) For delivery information visit our website at www CKSEND Postage Certified Fe החחב Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required Jacu Total Postage & Fees Sent To 3 Street, Ant. No. or PO Box No. City, State, ZIP+4 2S Form 3800 August 2006

Sincerely,

Brian Wood





October 31, 2011

R & R Royalty Ltd. 500 N. Shoreline Blvd., Suite 322 Corpus Christi, TX 78401

Nacogdoches Oil and Gas, Inc. is applying (see attached application) to convert its South Hospah 33 oil well to a salt water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.



Sincerely,

Brian Wood



Affidavit of Publication

STATE OF NEW MEXICO

) SS COUNTY OF MCKINLEY

REBECCA PAQUIN being duly sworn upon oath, deposes and says:

LEGAL CLERK of The Independent, a newspaper As published in and having a general circulation in McKinley County, New Mexico and in the City of Gallup, New Mexico and having a general circulation in Cibola County, New Mexico and in the City of Grants, New Mexico and having a general circulation in Apache County, Arizona and in the City of St. Johns and in the City of Window Rock, Arizona therein: that this affiant makes the affidavit based upon personal knowledge of the facts herein sworn to. That the publication, a copy of which is hereto attached was published in said newspaper during the period time of publication and said notice was published in the newspaper proper, and not in a supplement thereof, for One Time , the first publication day of being on the , <u>2011</u>, the second publication being on the day of , <u>2011</u>, the third publication being on day of the , 2010,

and the last publication being on the <u>10th</u> day of <u>September</u>, <u>2011</u>. That such newspaper, in which such notice or advertisement was published, is now and has been at all times material hereto, duly qualified for such purpose, and to publish legal notices and advertisements within the meaning of Chapter 12, of the statutes of the State of New Mexico, 1941 compilation.

Affiant.

Swom and Subscribed to before me this <u>14th</u> day of <u>any Utitiseptember</u>, A.D., 2011.

Public

My commission expires: June 25th, 2014

LEGAL NOTICE Gallup - McKinley County New Mexico Nacogdoches Oil & Gas Inc. is applying for a saltwater disposals well. The South Hospah 33 will be deepened and converted from an injection will to dispose into the Entrada from 3800' to 3900'. It is located at 1340 FNL & 1710 FWL Sec. 12, T.17, N., R.9W., McKinley County . The will is 23 miles ested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contained by contacting: Brian Wood, Permits West, Inc. 37 Verano Loop, Santa Fe, NM 87508. Phone 505) 466 -8120.

Legal # 12873 Published in The Independent September 10, 2011.

